SIGNALIZATION STUDY
for
BILLINGS, MONTANA

PART A - INVENTORY

SIGNALIZATION STUDY

for

BILLINGS, MONTANA

PART A - INVENTORY

Prepared for

MONTANA HIGHWAY COMMISSION
PLANNING SURVEY SECTION

and

BILLINGS - YELLOWSTONE
CITY-COUNTY PLANNING BOARD

In Cooperation With

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

By

CLARK, COLEMAN & RUPEIKS, INC.

JANUARY, 1969

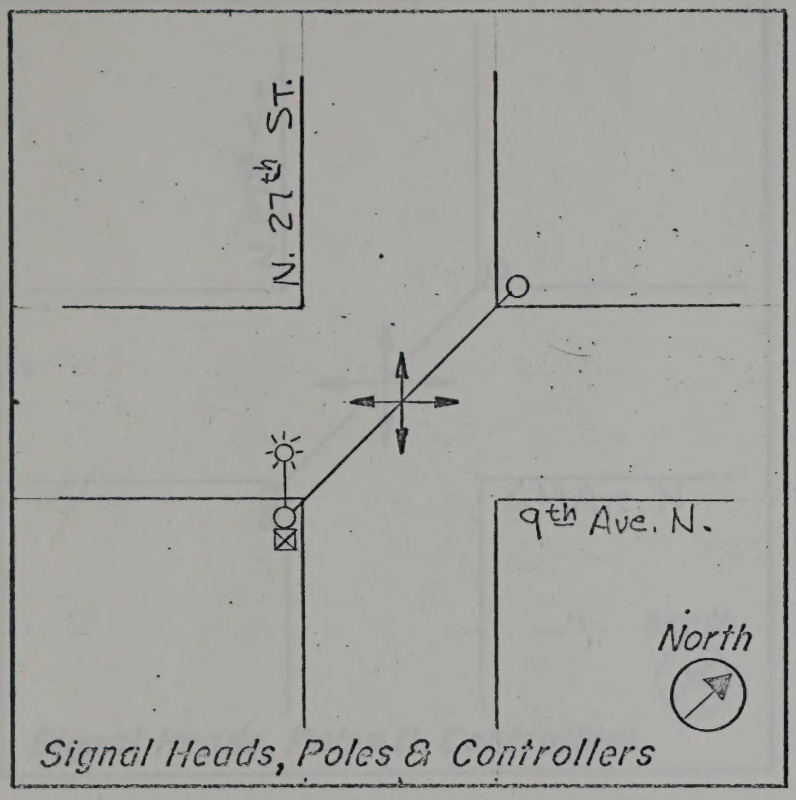
The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Bureau of Public Roads.

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 9th Ave. N. & N. 27th St. CODE # 1

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6793-203 Intersection Photo Numbers: 6780-58, 6787-142



PHASE	SIGNAL PHASING
A	FLASHER
B	FLASHER
C	
D	(R) (A) (G) ALL HEADS — North

Dial & Cycle		EAST-WEST Green	Ped Walk	Ped Clear	Amber	All Red		NORTH-SOUTH Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

SINGLE PHASE, SINGLE DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5, CATA. NO. KL3488

RED FLASHER ON 9th AVE. N, AMBER FLASHER ON N. 27th ST.

Signal Coordination: NONE

Turn Restrictions: NONE

Parking Restrictions: NONE

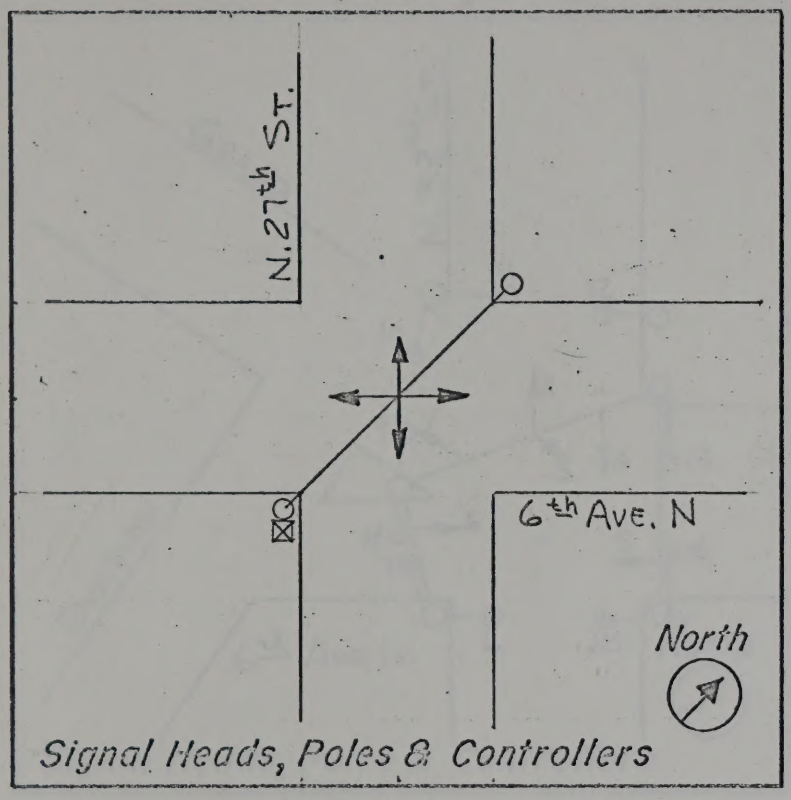
PHASE	SIGNAL DISPLAYS
A	
B	
C	
D	

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6th Ave. N. & N. 27th St. CODE # 2

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6792-191 Intersection Photo Numbers: 6778-43 6786-135



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G ALL HEADS

North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45		5									
Sec. 55	Sec	24.75			2.75			24.75		2.75									
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, FIXED TIME, SINGLE DIAL

CROUSE-HINDS, TYPE KS-1, KL-3464

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

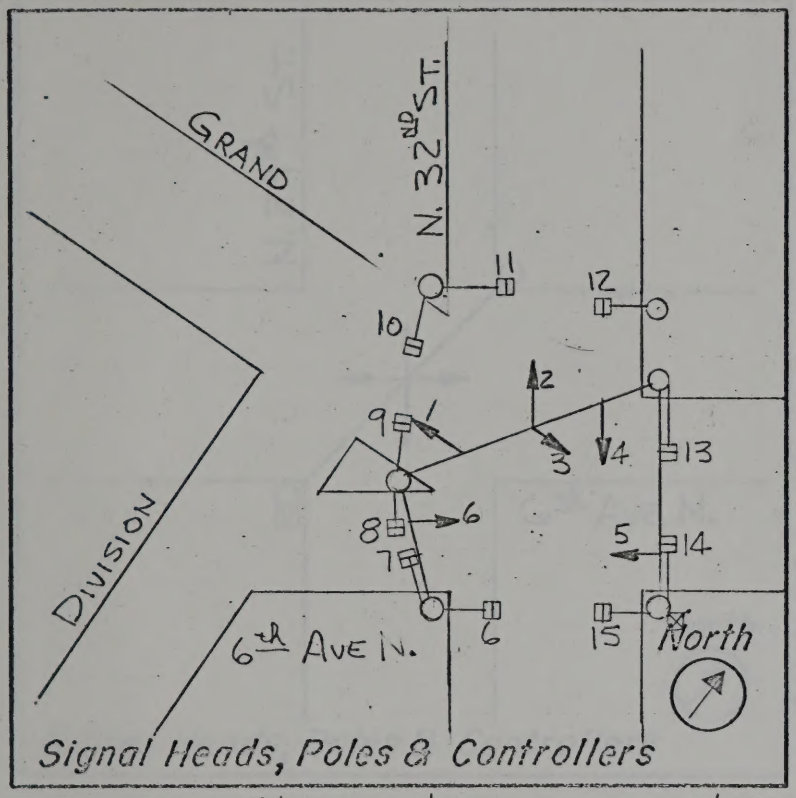
Parking Restrictions: NO PARKING - S. SIDE OF W. LEG, 2 HR. - BOTH SIDES N. LEG, METERED - BOTH SIDES S. LEG, 10 MIN - N. SIDE W. LEG

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6th Ave N., Grand Ave & Division CODE # 3

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒ 6782-83 6787-137

Controller Photo Numbers: 6792-195 Intersection Photo Numbers: 6787-136



PHASE	SIGNAL PHASING
A	
B	
C	
D	W W 7,8,9,12 13,14,15,16 — R A G 1-6 — DW W 10,11 — North

6TH AVE. N EAST-WEST | N. 32ND ST. NORTH-SOUTH | GRAND AVE.

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
#1	%	28	50	17	5			28	15	18	5			29	50	17	5		
Sec. 60	Sec	16.8	30	10.2	3			16.8	9	10.8	3			17.4	30	10.2	3		
	Pins																		
#2	%	25			5			26			5			34			5		
Sec. 70	Sec	17.5			3.5			18.2			3.5			23.8			3.5		
	Pins																		
#3	%	26			4			31			4			26			4		
Sec. 80	Sec	20.8			3.2			28.8			3.2			20.8			3.2		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

3 ϕ, 3 DIAL, FIXED TIME

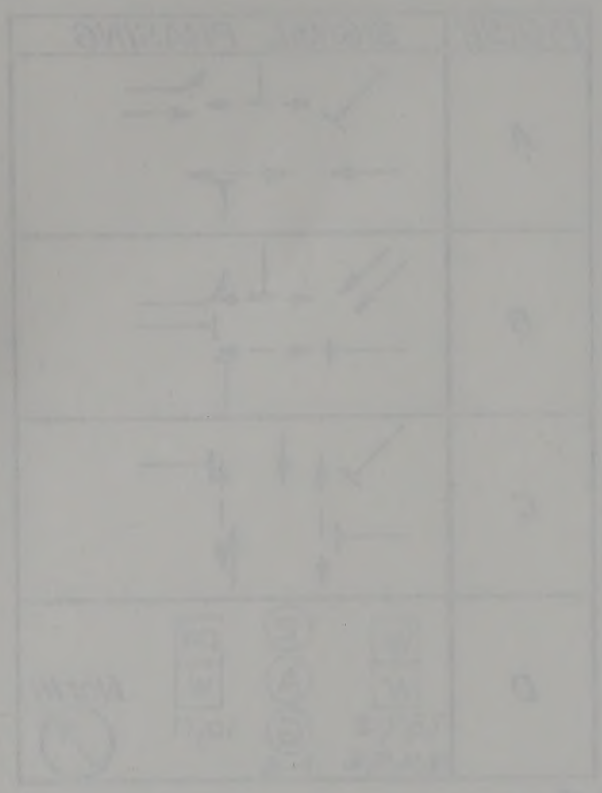
CROUSE-HINDS, TYPE LS-1, CATA. NO. PCEM-1000

W.B. 6th AVE N. HAS PHASE OVERLAP A & B ϕ

Signal Coordination: NONE

Turn Restrictions: NO LEFT TURN FROM W. TO N. LEG

Parking Restrictions: NO PARKING-W. LEG, S.W. LEG, N.E. LEG.

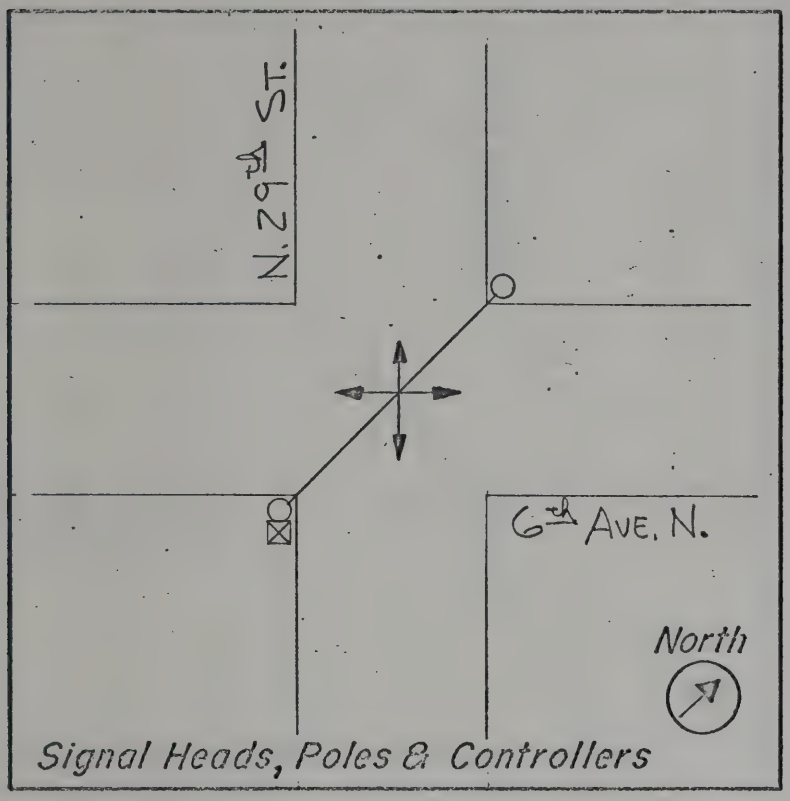


3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6th AVE. N. & N. 27th ST. CODE #: 4

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6792-93 Intersection Photo Numbers: 6781-71 6786-133



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	

R A G ALL HEADS

North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

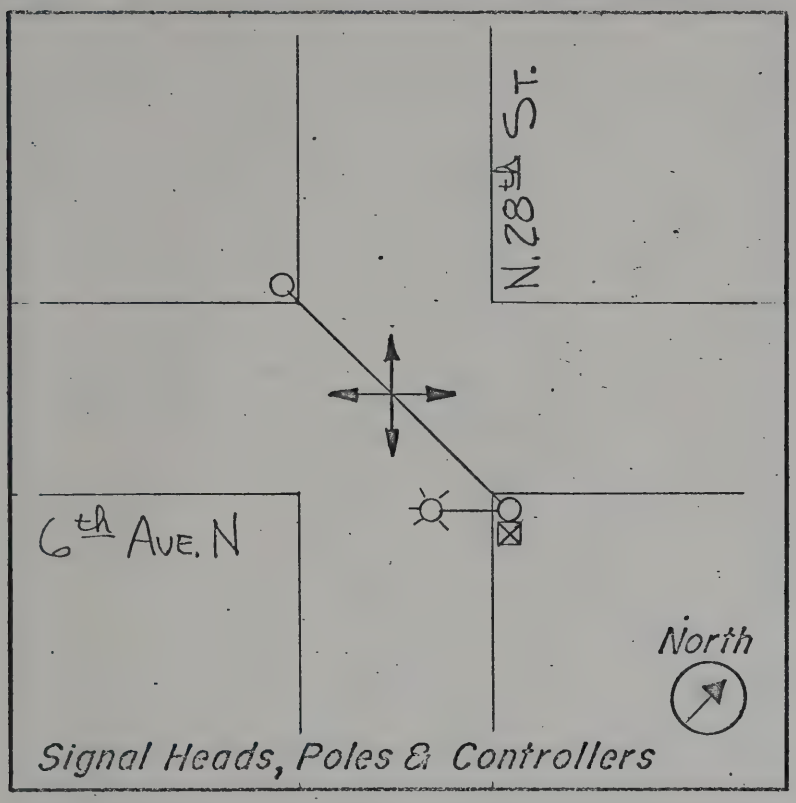
Parking Restrictions: NO PARKING - E. & W. LEGS, METERED - S. LEG

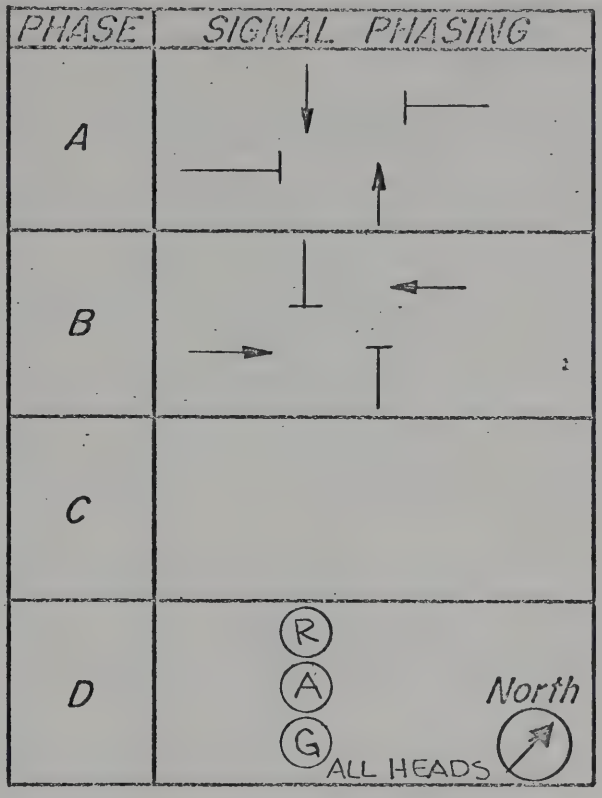
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6th Ave. N. & N. 28th St CODE # 5

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6792-192 Intersection Photo Numbers: 6779-51 6786-134





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5, CATA. NO. KL 3466

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

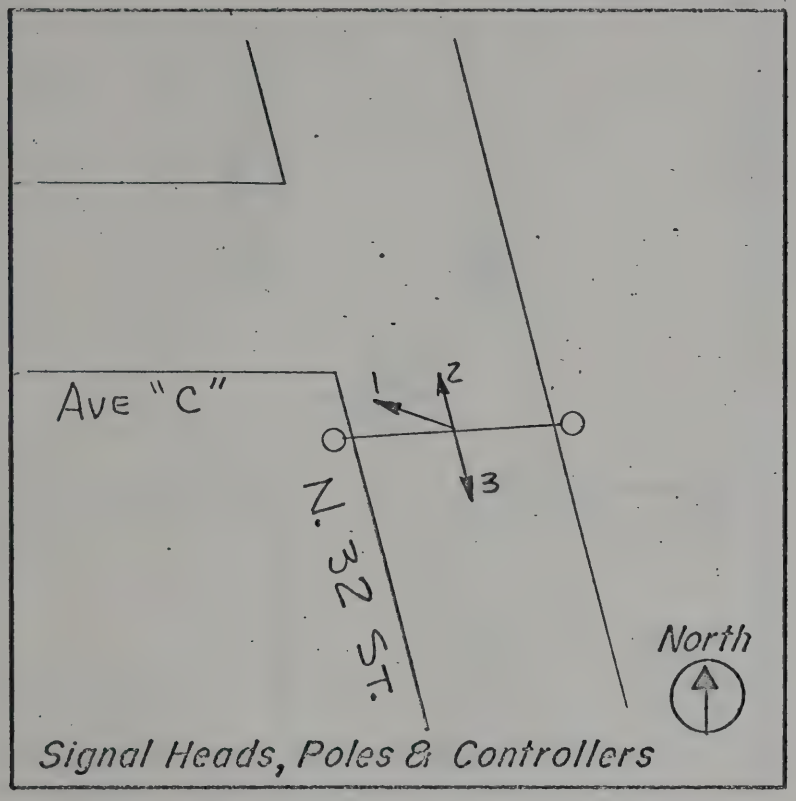
Parking Restrictions: NO PARKING-E. LEG, METERED-S. LEG, 2 HR. 8A-6P N. LEG, 10 MIN.-N. SIDE W. LEG, NO PARKING-S. SIDE W. LEG.

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: Ave "C" & N. 32. St. CODE # 6

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: _____ Intersection Photo Numbers: W-6, N-6



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	FLASHER
B	FLASHER
C	
D	(A) 1,2,3 North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
*	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

Controller Located in Building. On-Off Switch operated by Janitor. On About 8:00 AM, Off at 4:30 PM. Daily Controller

Signal Coordination: None

Turn Restrictions: None

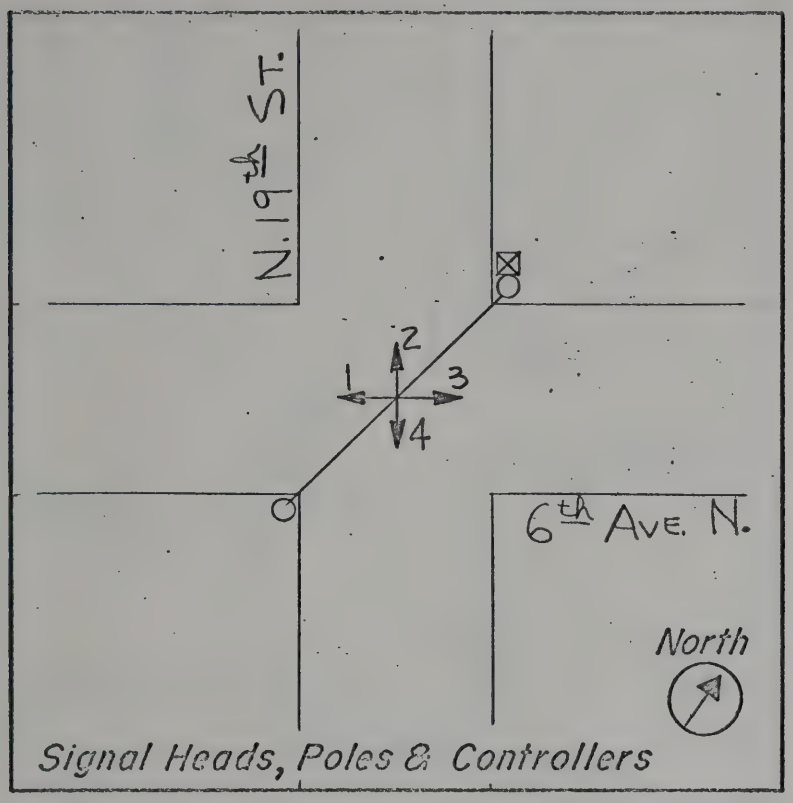
Parking Restrictions: None

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6th Ave. N. & N. 19th St. CODE# 7

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6793-204 Intersection Photo Numbers: 6787-145 6787-143



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	PRESENTLY IN USE AS A FLASHER – AMBER ON 6th Ave N. RED ON N. 19th St.
B	
C	
D	(R) (A) (G) 1,2,3,4 North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# ___	%																		
Sec. ___	Sec																		
	Pins																		
# ___	%																		
Sec. ___	Sec																		
	Pins																		
# ___	%																		
Sec. ___	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

EAGLE CONTOLLER, TYPE EA1718179

Signal Coordination: NONE

Turn Restrictions: NONE

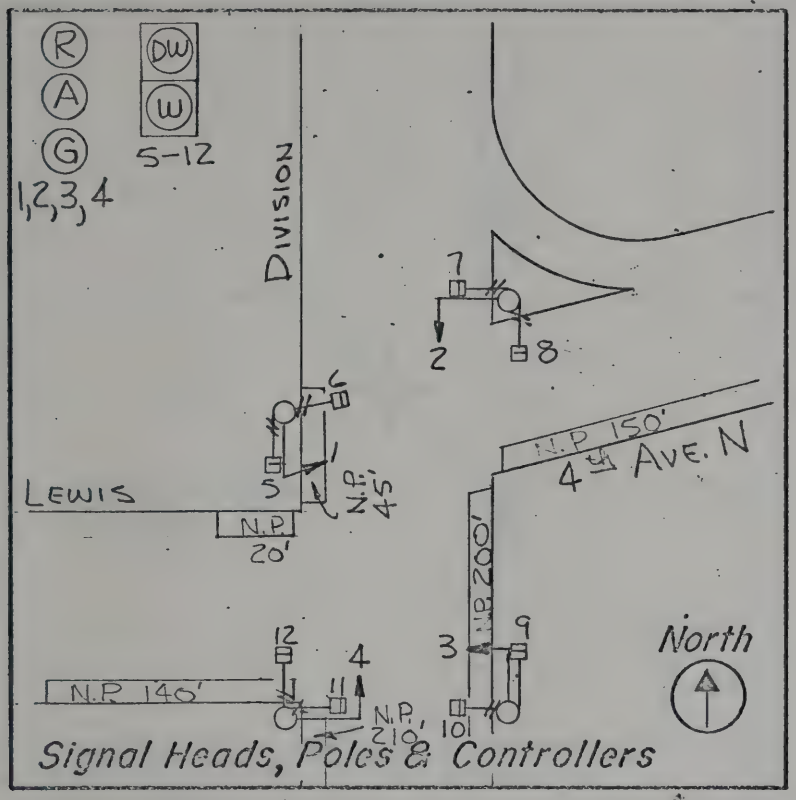
Parking Restrictions: NONE

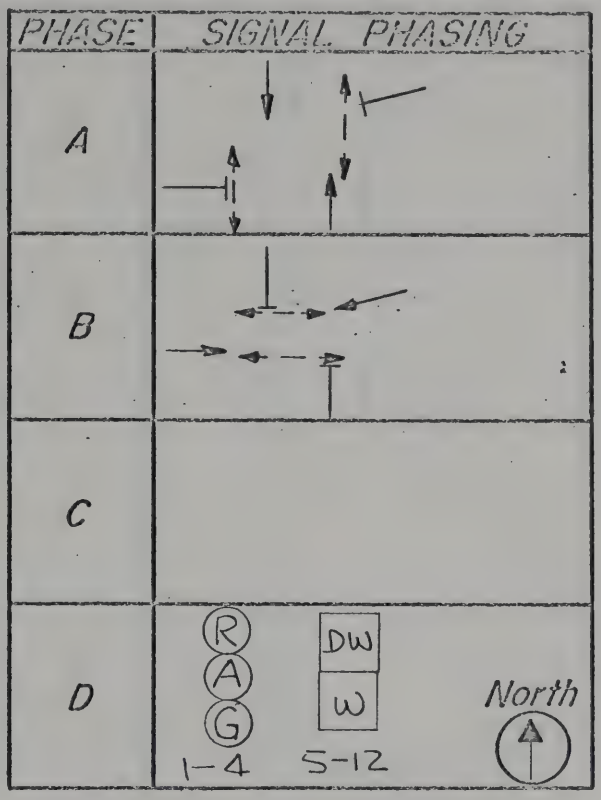
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 4th Ave. N. & Division CODE # 8

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6793-197 Intersection Photo Numbers: 6782-86, 6787-139





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	60			5			30			5								
Sec. 55	Sec	33			2.75			16.50			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 3 DIAL, FIXED TIME

CROUSE-HINDS, TYPE LS-1, CATA. NO. 51010

9" X 12" INCANDESCENT PED HEADS

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

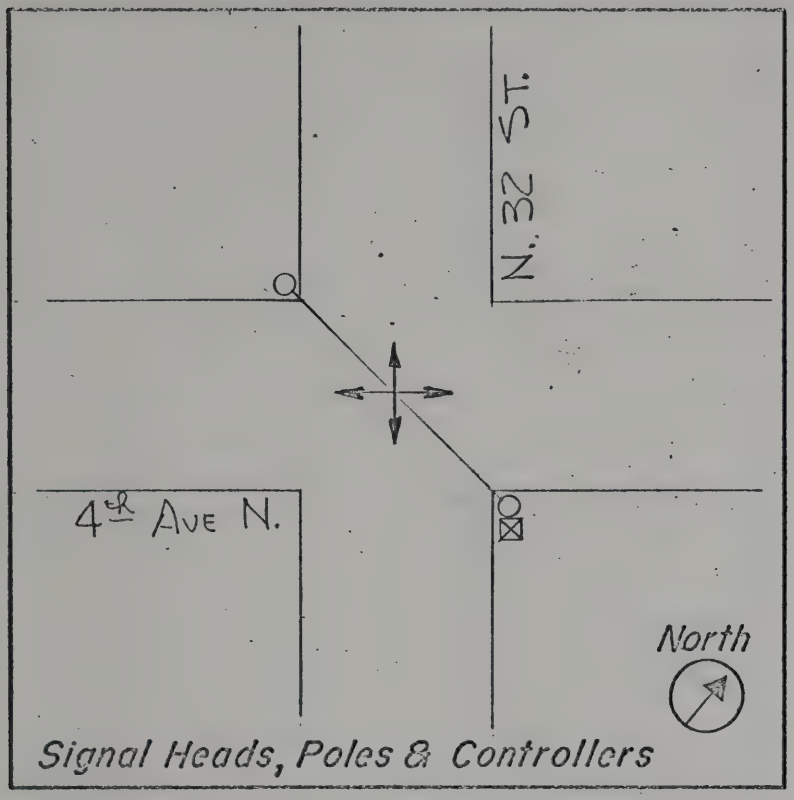
Parking Restrictions: NONE

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

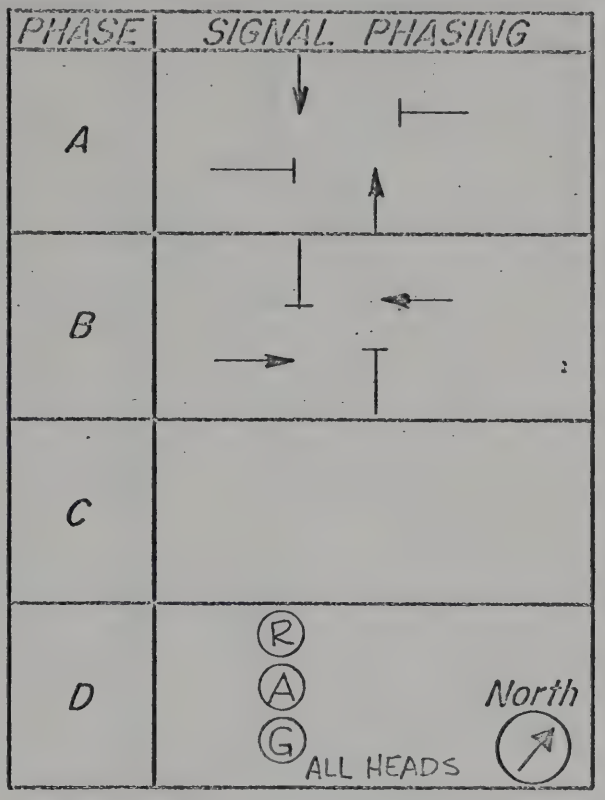
INTERSECTION: 4th Ave. N. & N. 32 St. CODE # 9

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6793-196 Intersection Photo Numbers: 6782-84, 6787-138



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

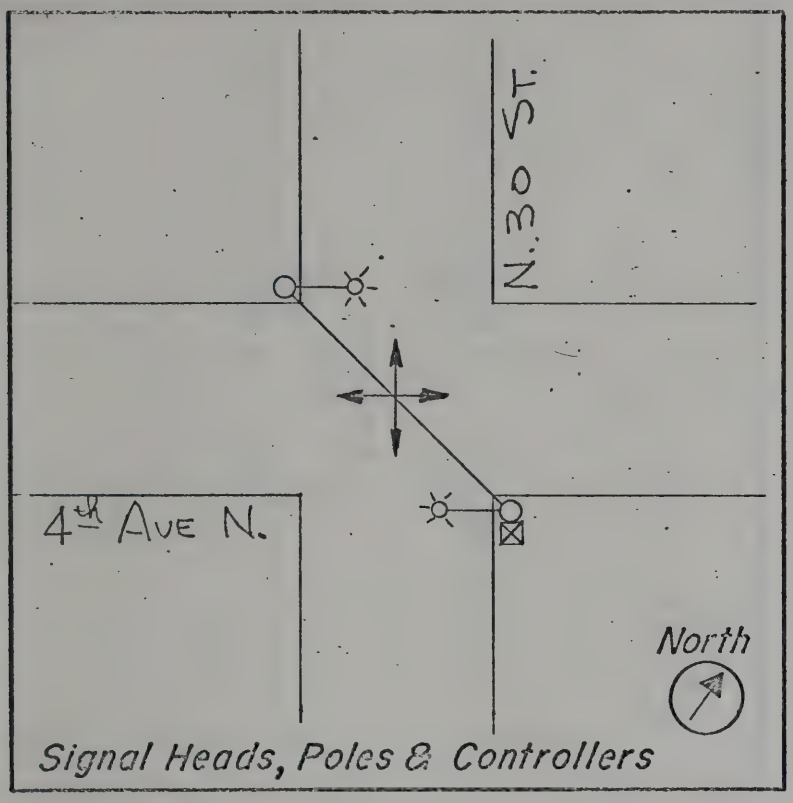
Parking Restrictions: 2 HR. - N., W., & S. LEGS

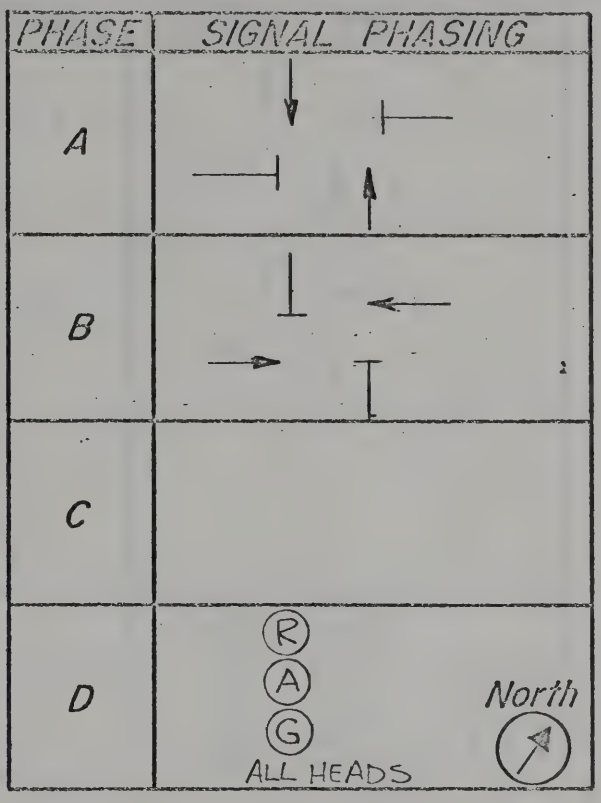
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 4th Ave. N. & N. 30 St. CODE #: 10

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6792-187 Intersection Photo Numbers: 6782-79, 6786-128





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: CONDUIT INTERCONNECTED

Turn Restrictions: NONE

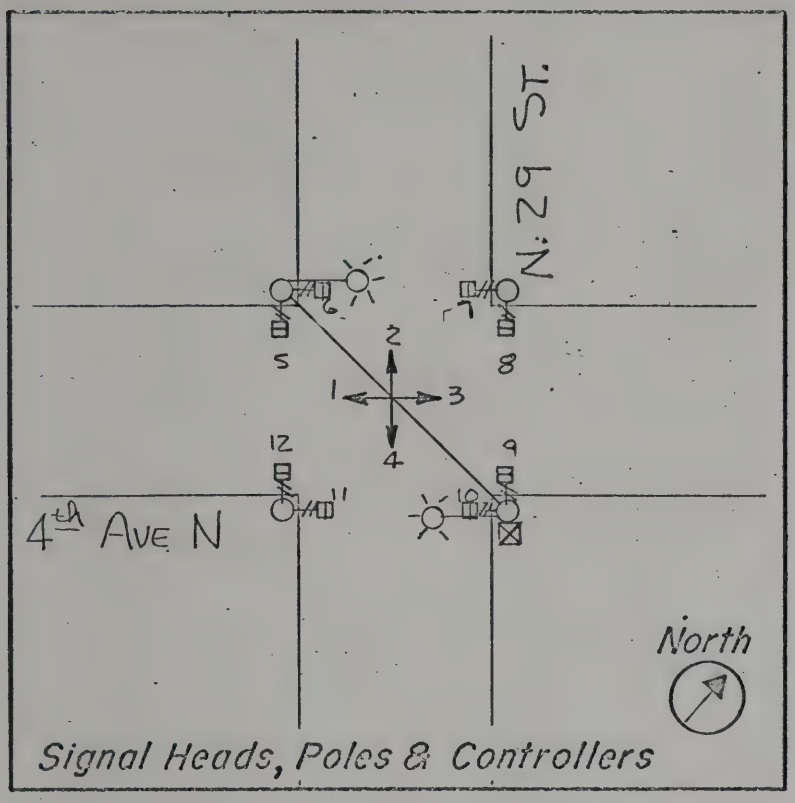
Parking Restrictions: 2 HR 8AM-6 P.M. - W. LEG, METERED - E & S LEGS, N.P. DURING SCHOOL HOURS - E. SIDE OF N. LEG, 2 HR. - W. SIDE OF N. LEG.

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

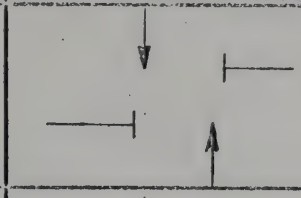
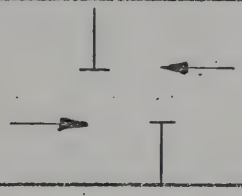
INTERSECTION: 4th Ave N. & N. 29 St. CODE # 11

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6792-188 Intersection Photo Numbers: 6781-72, 6786-129



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G 1,2,3,4 — DW W 5,6,7,8 9,10,11,12 — North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	26	24	5			45	26	24	5								
Sec. 55	Sec	24.75	14.4	13.1	2.75			24.75	14.4	13.1	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Φ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

9" x 12" INCANDESCENT PED. HEADS

Signal Coordination: CONDUIT INTERCONNECTED

Turn Restrictions: NONE

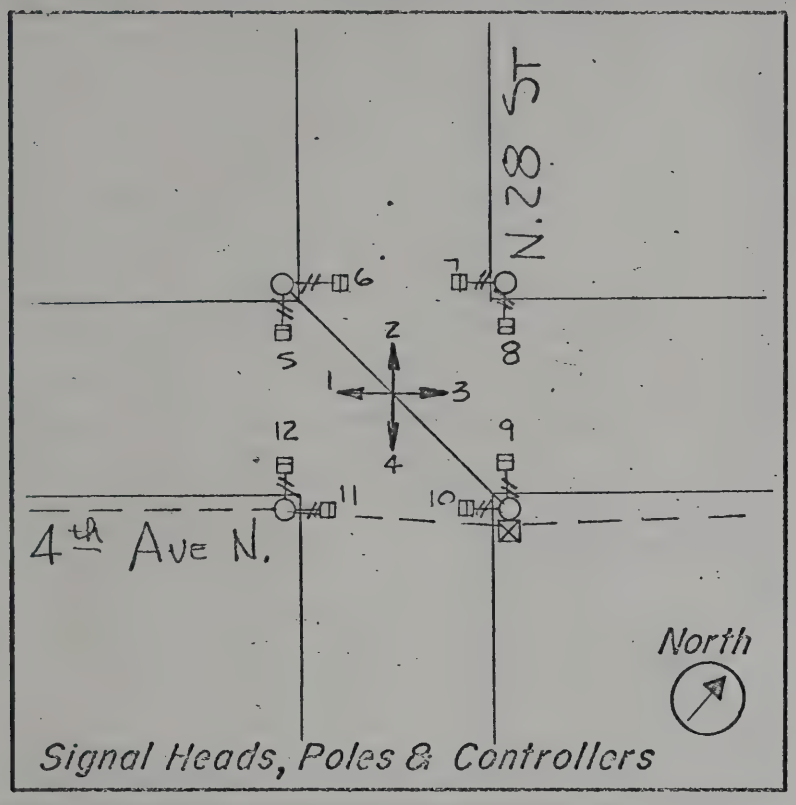
Parking Restrictions: NONE

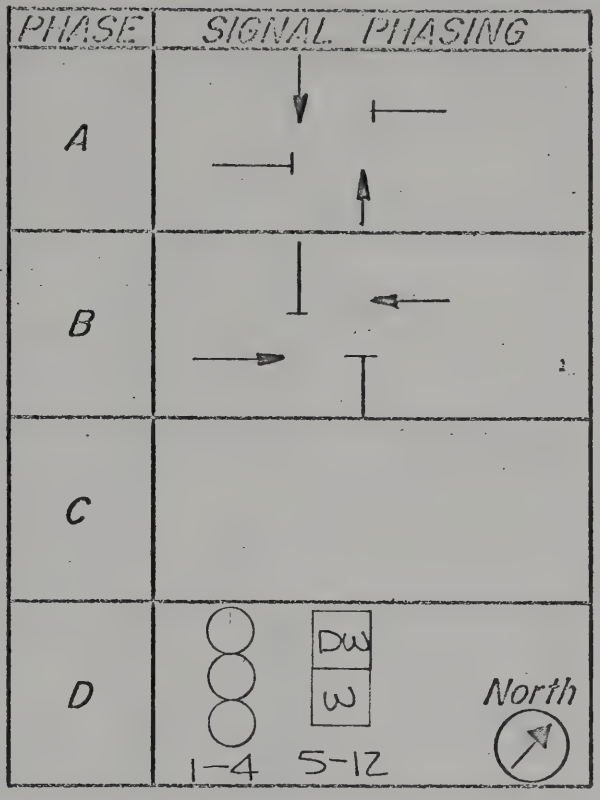
#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 4th Ave. N. & N. 28 St CODE # 12

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6792-189 Intersection Photo Numbers: 6779-52, 6786-130





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	22	28	5			45	25	25	5								
Sec. 55	Sec	24.75	12.1	15.4	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

9" X 12" INCANDESCENT PED. HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

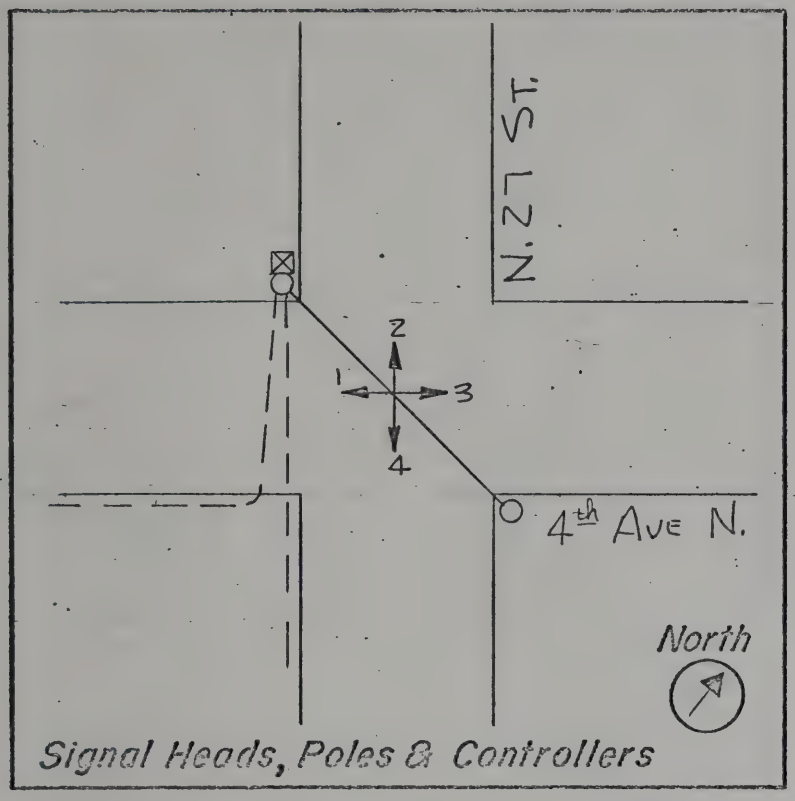
Parking Restrictions: METERED - BOTH SIDES OF ALL LEGS, EXCEPT BUS STOP ON E. SIDE OF N. LEG.

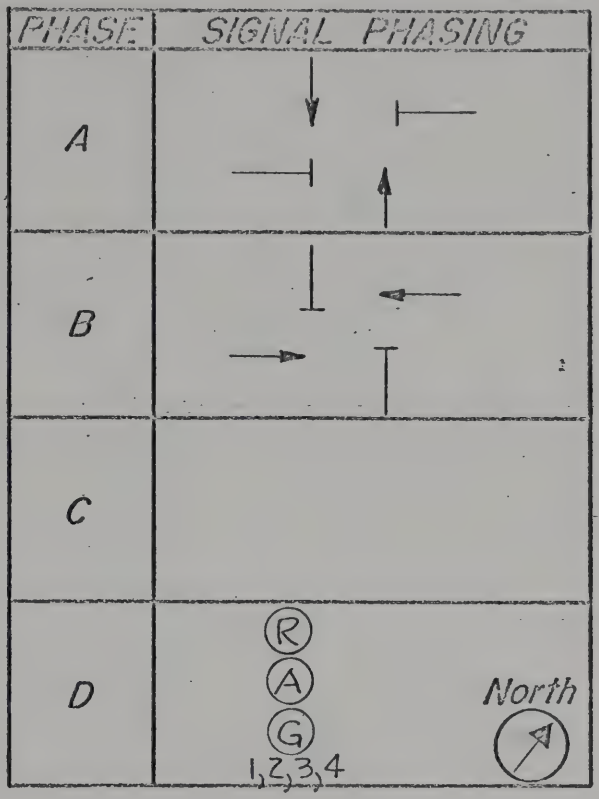
#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 4th Ave. N. & N. 27 St. CODE # 13

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6792-190 Intersection Photo Numbers: 6780-60 6786-131





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Φ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

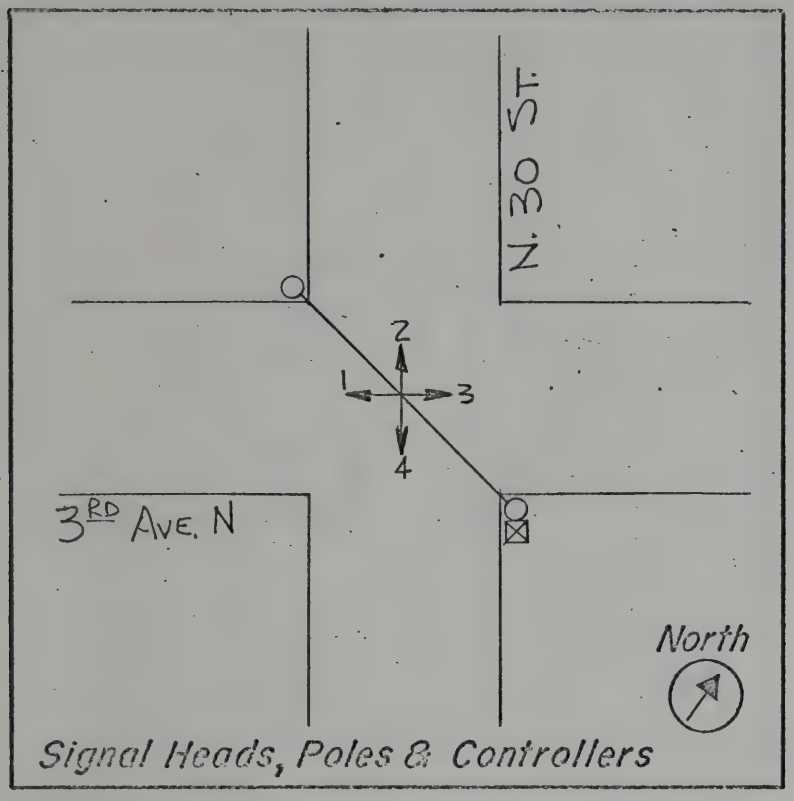
Parking Restrictions: N.P.-E. LEG, METERED - N., W. & S. LEGS

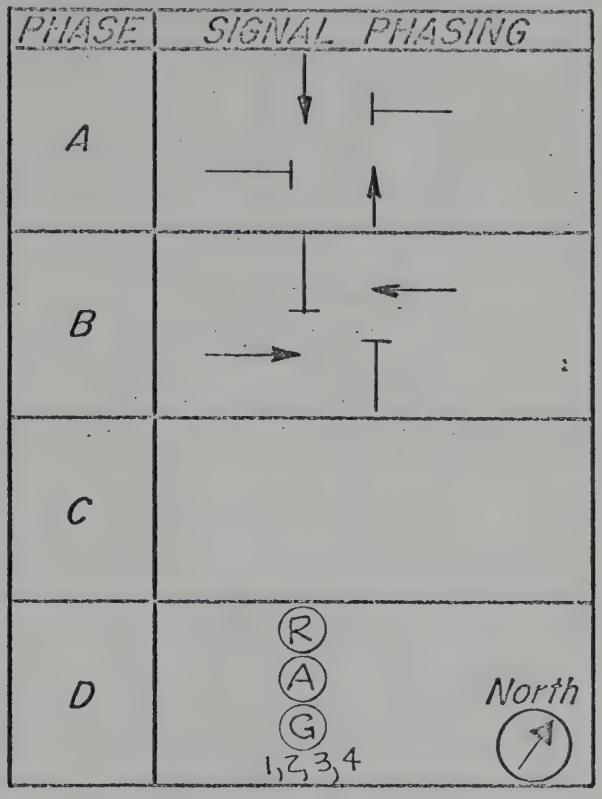
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 3RD AVE. N. & N. 30 ST. CODE # 14

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6792-186 Intersection Photo Numbers: 6782-80, 6786-124





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45		5									
Sec. 55	Sec	24.75			2.75			24.75		2.75									
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

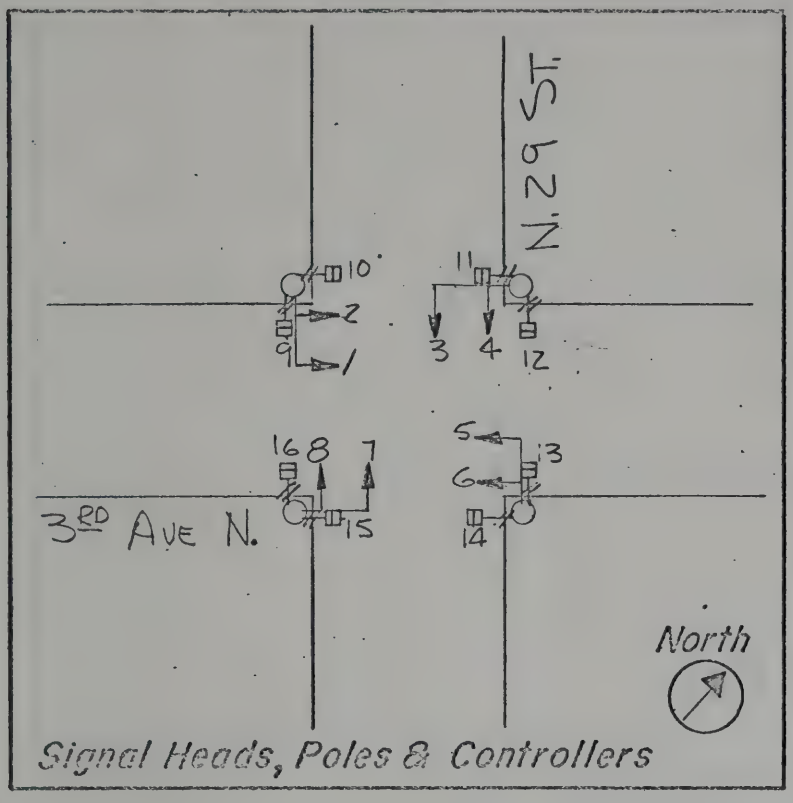
Parking Restrictions: METERED - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

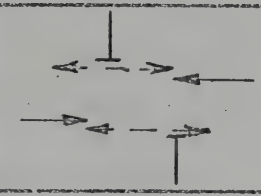
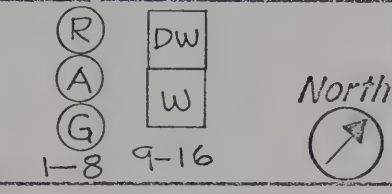
INTERSECTION: 3RD AVE. N. & N. 29 ST CODE # 15

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6792-185 Intersection Photo Numbers: 6781-73, 6786-125



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	

EAST-WEST

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

NORTH-SOUTH

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9"X12" INCANDESCENT PED. HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: LEFT TURN LANES ON ALL APPROACHES

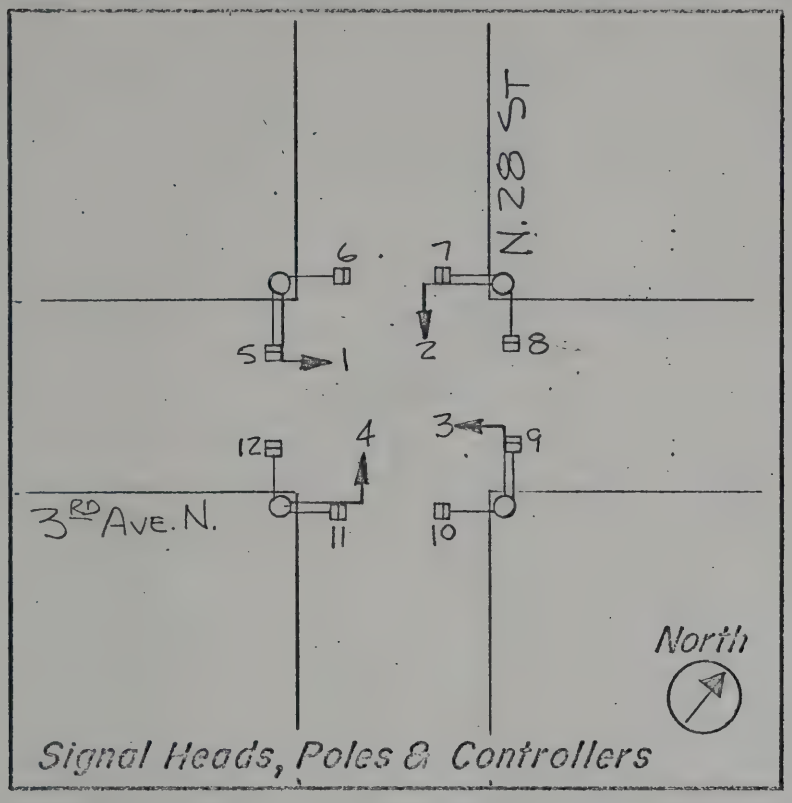
Parking Restrictions: METERED - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

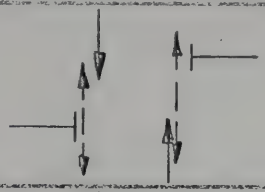
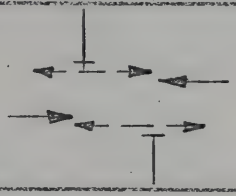
INTERSECTION: 3RD AVE. N & N. 28 ST CODE # 16

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6792-184 Intersection Photo Numbers: 6779-53, 6786-126



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G 1-4 ; DW W 5-12 ; North

EAST-WEST / NORTH-SOUTH

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

9"X12" INCANDESCENT PED HEAD

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: LEFT TURN LANES ON ALL LEGS

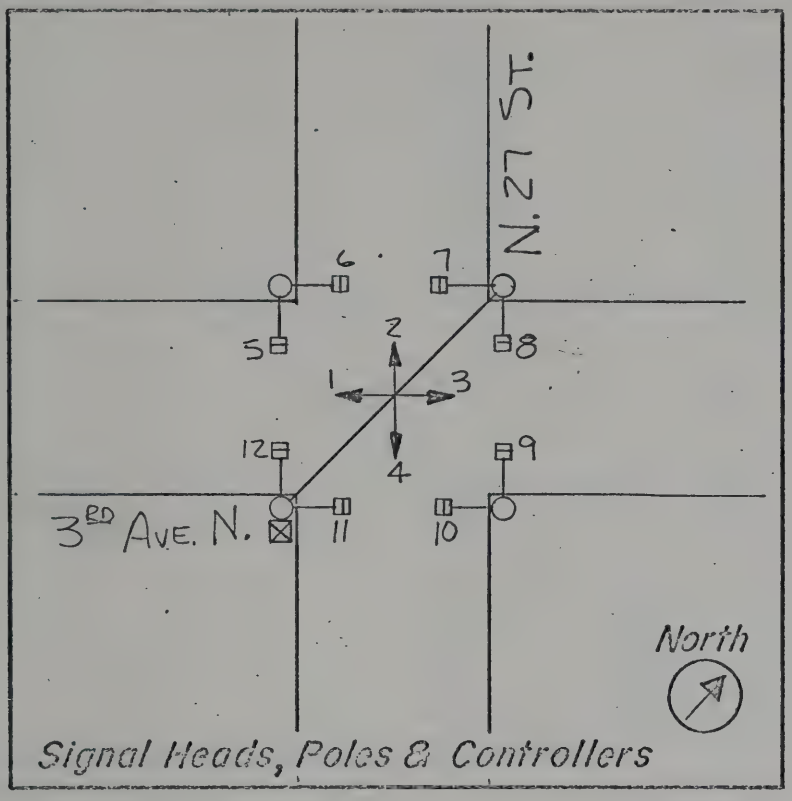
Parking Restrictions: METERED – ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 3RD AVE. N. & N. 27 ST. CODE #: 17

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-183 Intersection Photo Numbers: 6780-61, 6786-127



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G 1-4; DW W 5-12; North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9"X12" INCANDESCENT PED HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

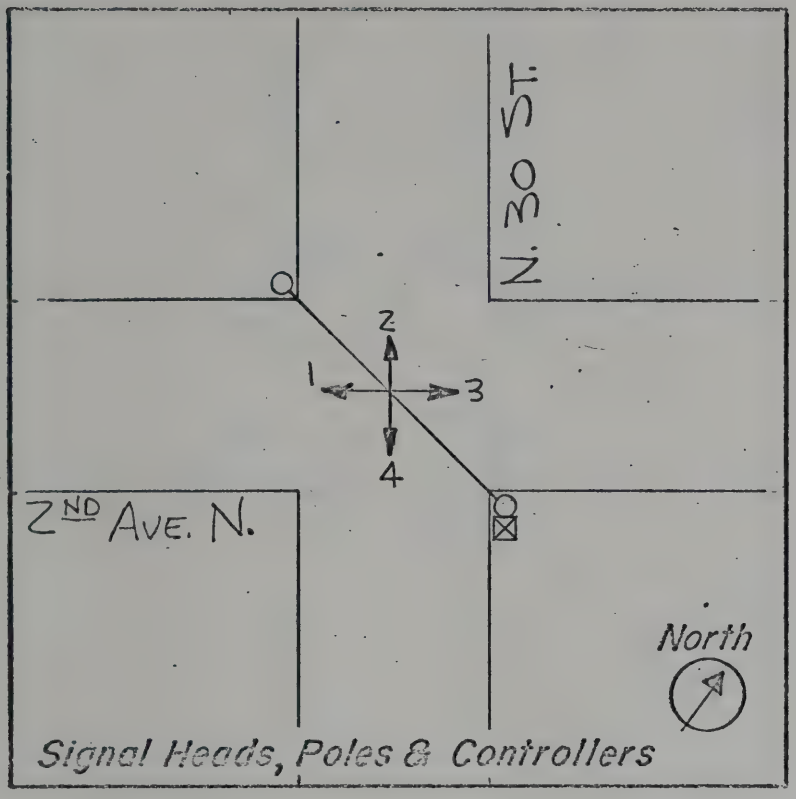
Parking Restrictions: METERED – ALL LEGS

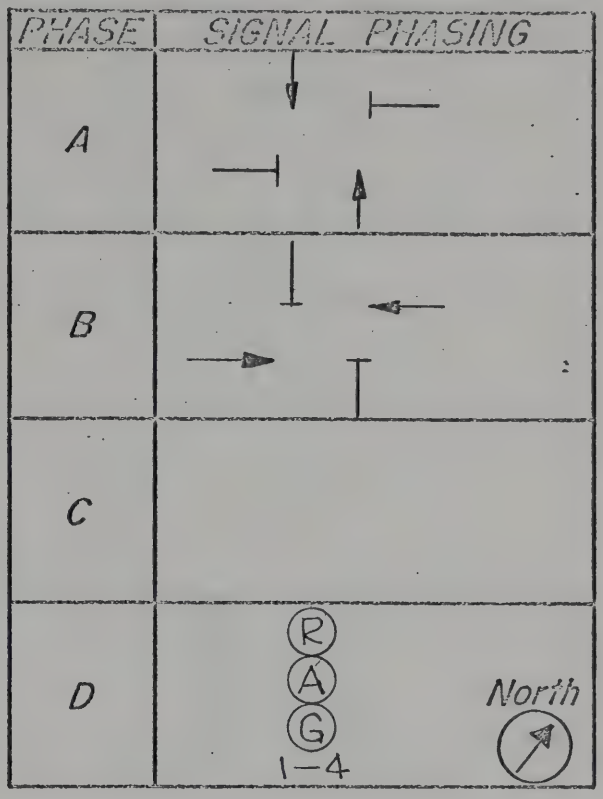
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 2ND AVE. N. & N. 30 ST. CODE # 18

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-178 Intersection Photo Numbers: 6782-81, 6785-120





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec	Sec																		
	Pins																		
#	%																		
Sec	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

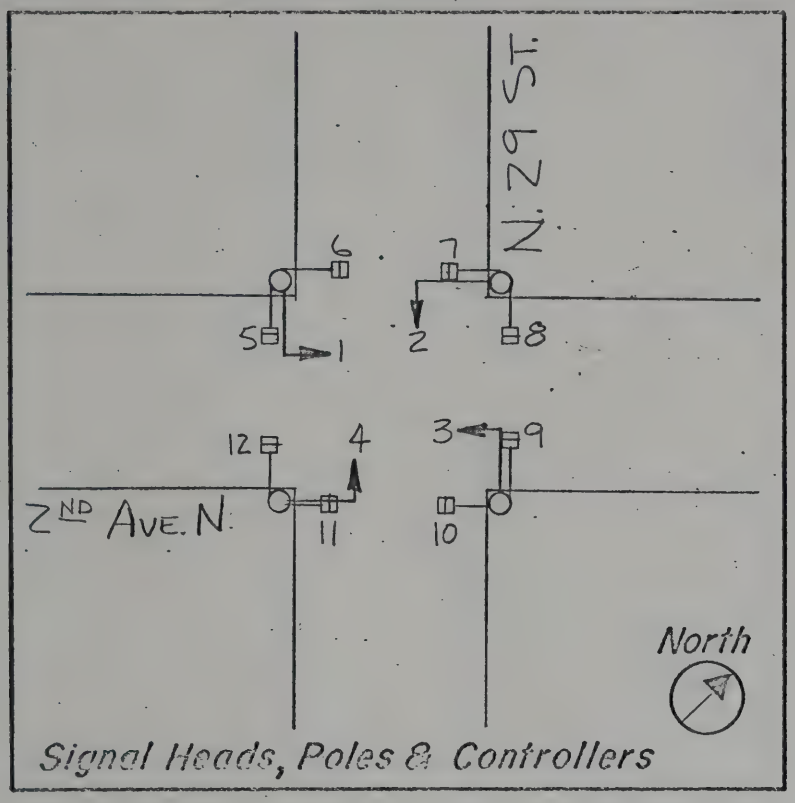
Parking Restrictions: METERED-ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

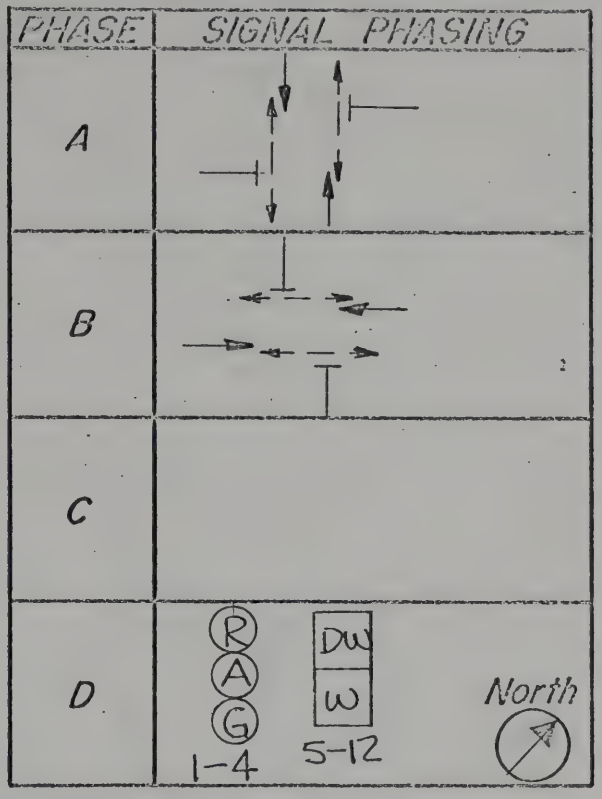
INTERSECTION: 2ND AVE N. & N. 29 ST. CODE # 19

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-179 Intersection Photo Numbers: 6781-74, 6785-121



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9"X 12" INCANDESCENT PED. HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

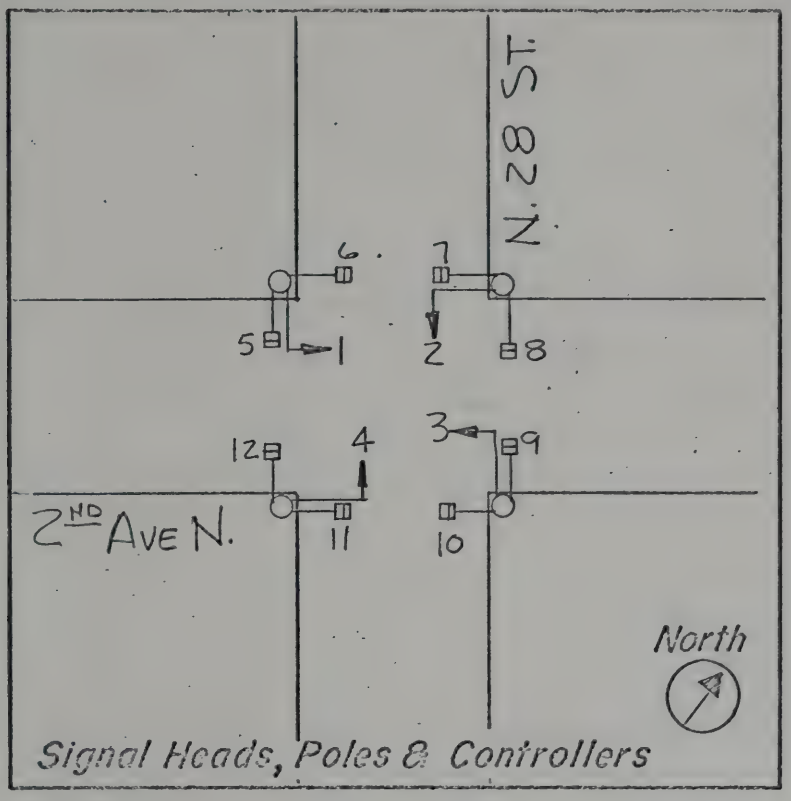
Parking Restrictions: METERED - ALL LEGS

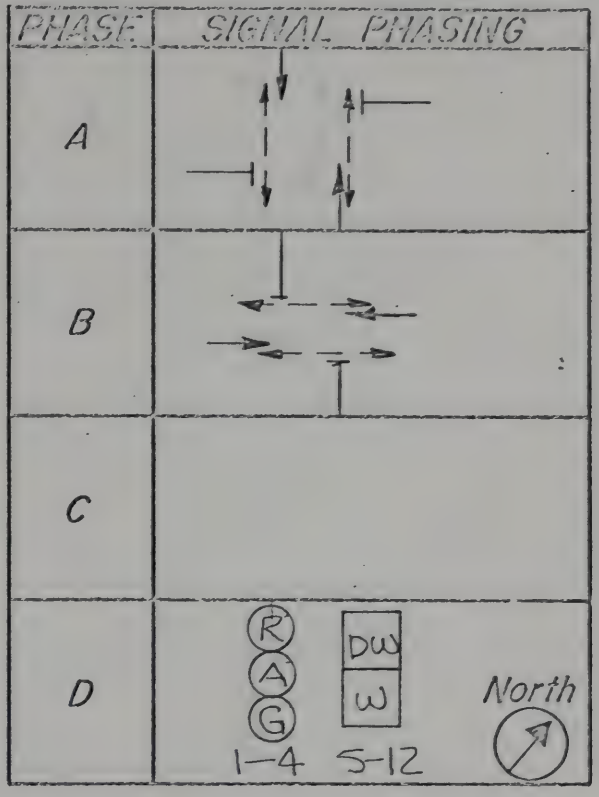
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 2ND AVE N. & N. 28 ST. CODE # 20

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-180 Intersection Photo Numbers: 6779-54, 6785-122





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9"X12" INCANDESCENT PED. HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

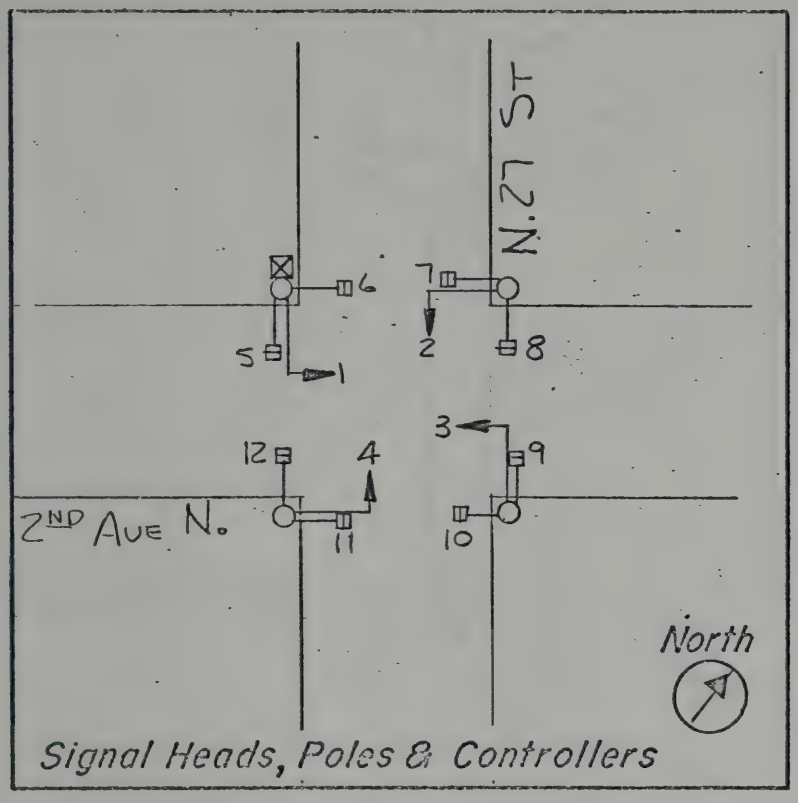
Parking Restrictions: METERED - ALL LEGS, N.P. 3A-7A M, W, F - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

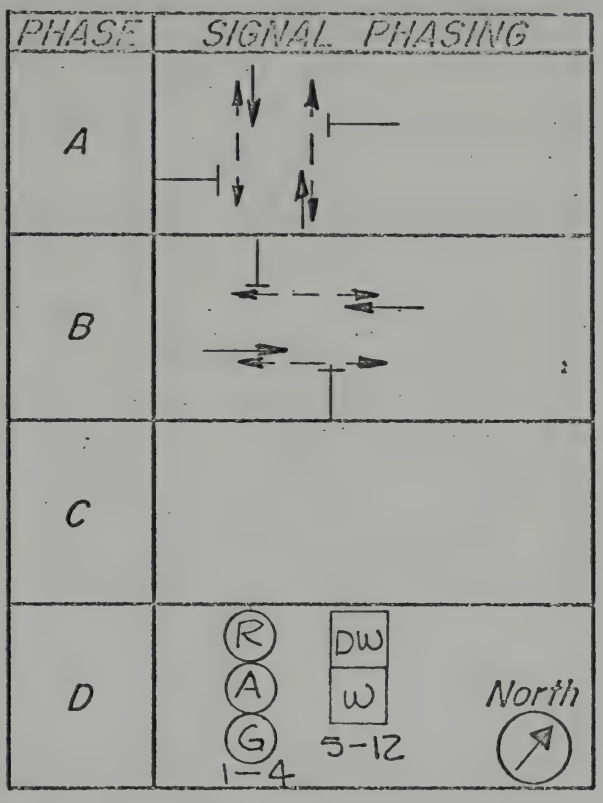
INTERSECTION: 2ND AVE. N & N. 27 ST. CODE # 21

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6790-161 Intersection Photo Numbers: 6780-62, 6785-123, 6791-18



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-M

9" X 12" INCANDESCENT PED HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

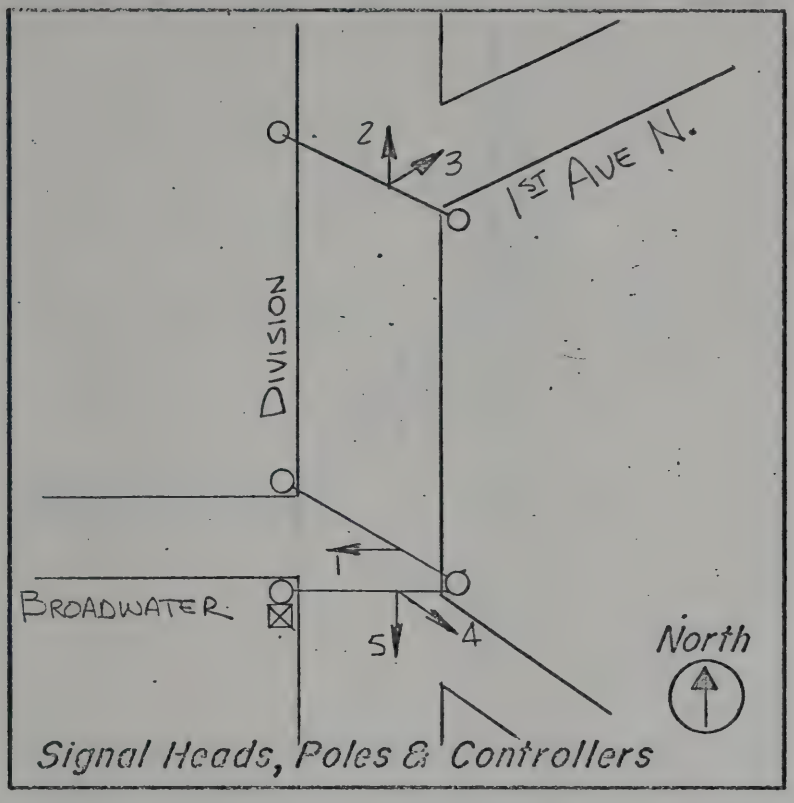
Parking Restrictions: NONE

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

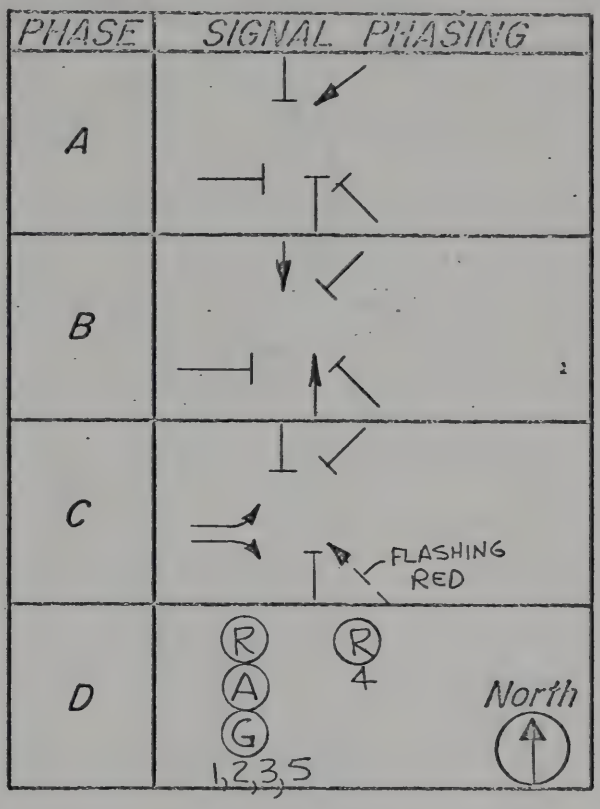
INTERSECTION: 1ST AVE. N. & DIVISION & BROADWATER CODE #22 & 50

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒ 6782-87, 6782-88, 6783-90

Controller Photo Numbers: 6793-200 Intersection Photo Numbers: 6781-140



Signal Heads, Poles & Controllers



Dial & Cycle		EAST-BOUND Green	Ped Walk	Ped Clear	Amber	All Red		NORTH-SOUTH Green	Ped Walk	Ped Clear	Amber	All Red		WEST BOUND Green	Ped Walk	Ped Clear	Amber	All Red	
#1	%	23			5			35			5			27			5		
Sec 60	Sec	13.8			3			21			3			16.2			3		
	Pins																		
#2	%	22			4			31			4			35			4		
Sec 70	Sec	15.4			2.8			21.7			2.8			24.5			2.8		
	Pins																		
#3	%	33			4			30			4			25			4		
Sec 30	Sec	26.4			3.2			24			3.2			20			3.2		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

3Ø, 3 DIAL, FIXED TIME

CROUSE-HINDS, TYPE LSI-PCE 1000

FLASHER & SHUTDOWN

Signal Coordination: CONTROLS INTERSECTIONS 31, 22 & 50

Turn Restrictions: NO RIGHT ON RED - S.E. LEG

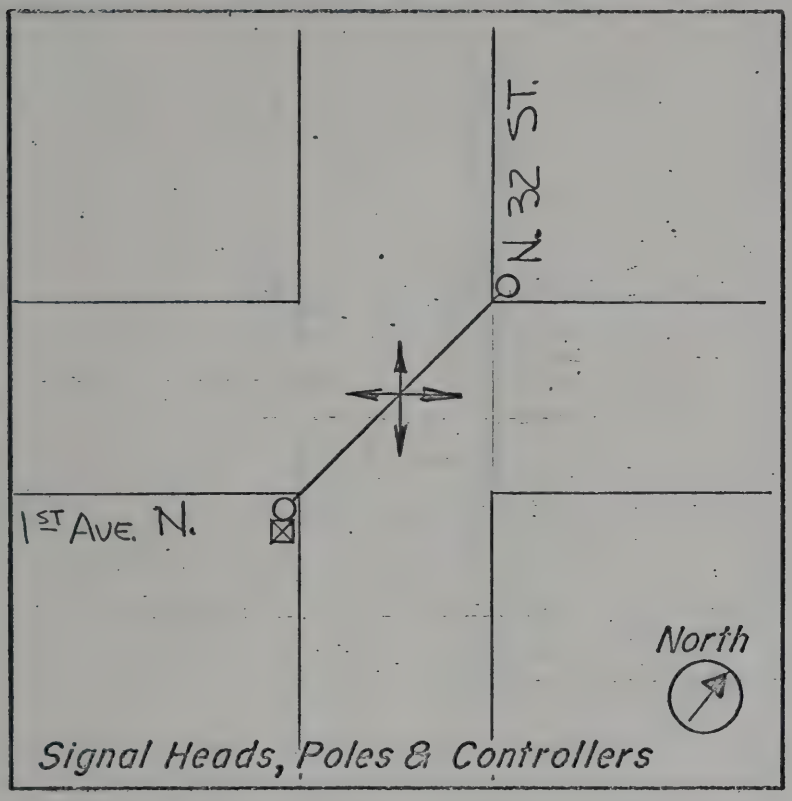
Parking Restrictions: N.P. - W. LEG, N.P. - 100' ON N. SIDE E. LEG, N.P. - 150' ON S. SIDE E. LEG

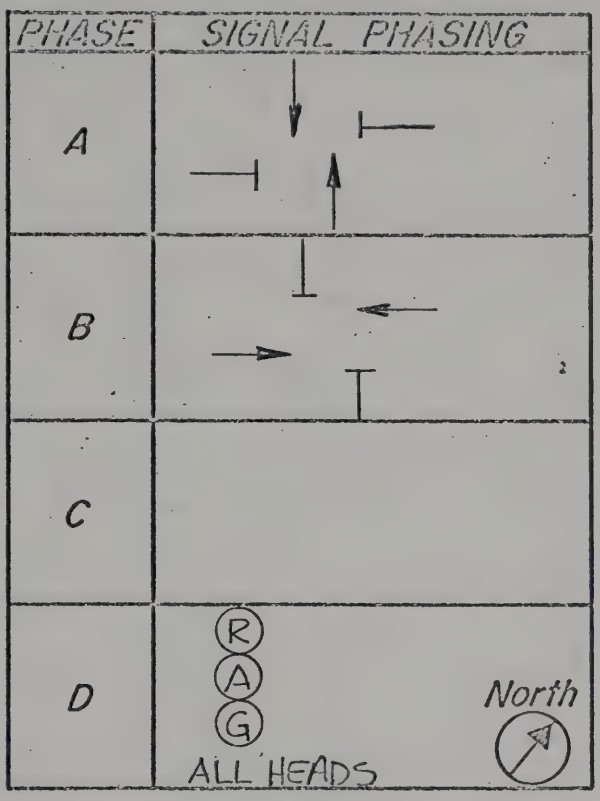
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 1ST AVE. N. & N. 32 ST CODE # 23

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6793-201 Intersection Photo Numbers: 6787-85 & 6785-113





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1 SYNCHRONOUS

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

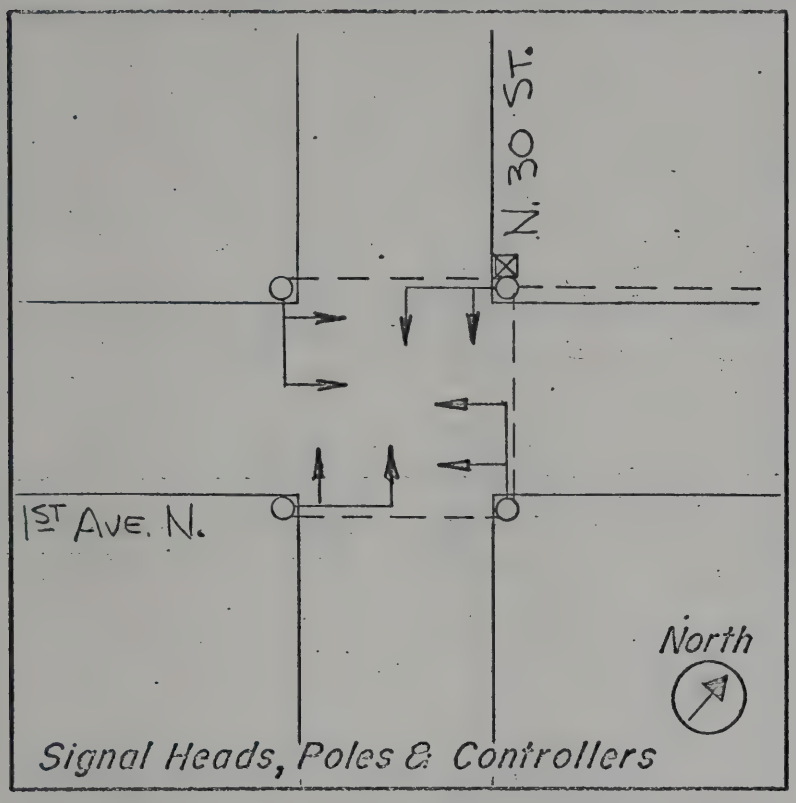
Parking Restrictions: 2 HR. - N. & S. LEGS, METERED - E. & W. LEGS

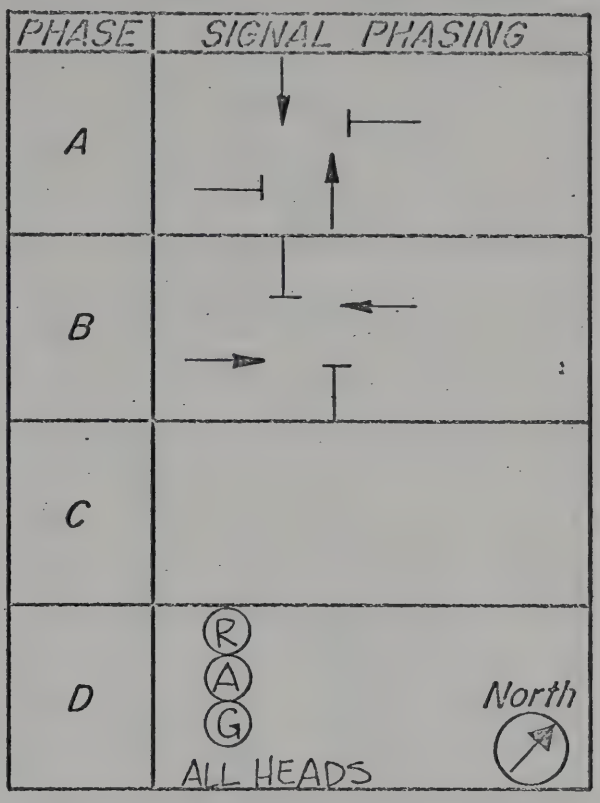
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 1ST AVE. N. & N. 30 ST. CODE # 24

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-176 Intersection Photo Numbers: 6782-82 6785-114





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

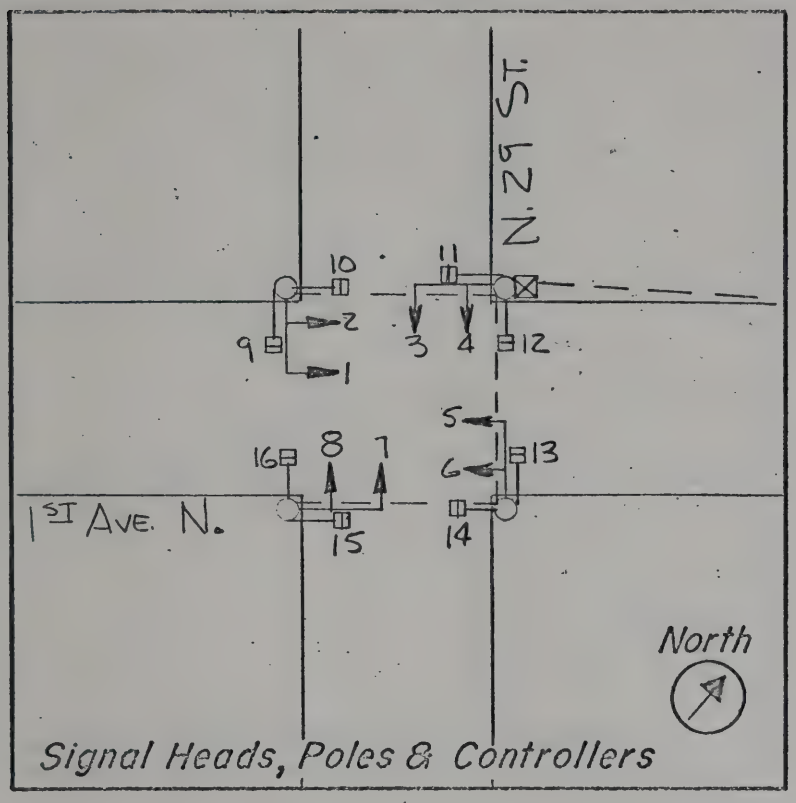
Parking Restrictions: METERED – ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

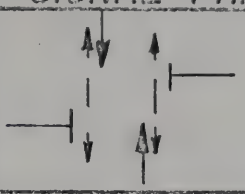
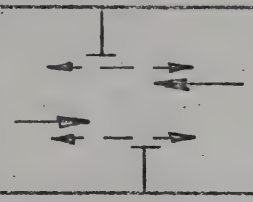
INTERSECTION: 1ST AVE. N. & N. 29 ST. CODE # 25

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-175 Intersection Photo Numbers: 6781-75, 6785-115



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G 1-8 DW W North

EAST-WEST

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5		
Sec. 55	Sec	24.75	13.75	13.75	2.75		
	Pins						
#	%						
Sec.	Sec						
	Pins						
#	%						
Sec.	Sec						
	Pins						

NORTH-SOUTH

	Green	Ped Walk	Ped Clear	Amber	All Red	
%	45	25	25	5		
Sec	24.75	13.75	13.75	2.75		
Pins						
%						
Sec						
Pins						
%						
Sec						
Pins						

	Green	Ped Walk	Ped Clear	Amber	All Red	
%						
Sec						
Pins						
%						
Sec						
Pins						
%						
Sec						
Pins						

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9" X 12" INCANDESCENT PED. HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NO LEFT TURN - E & W LEGS

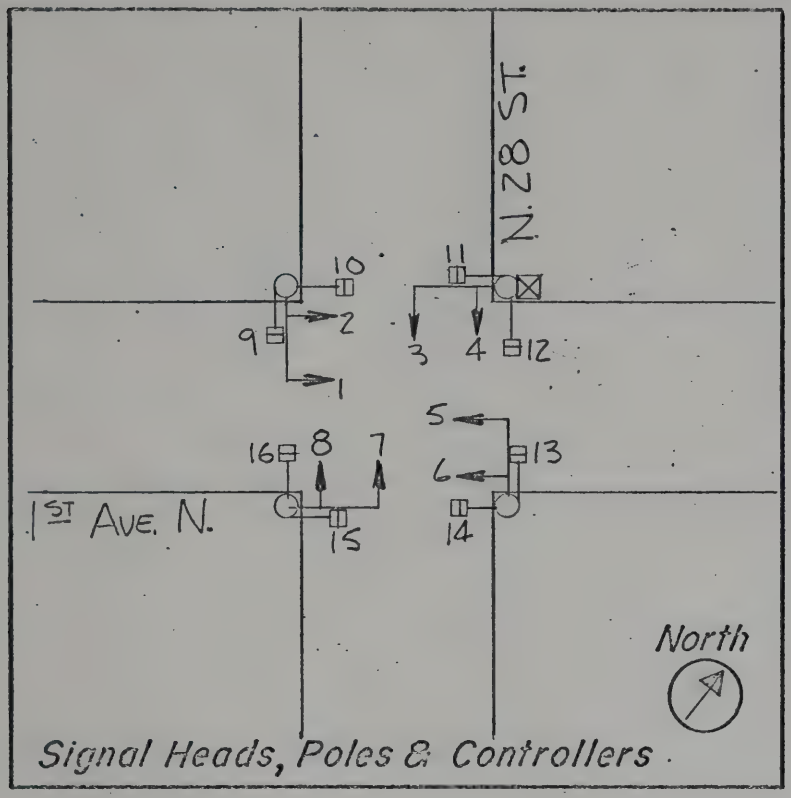
Parking Restrictions: METERED - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

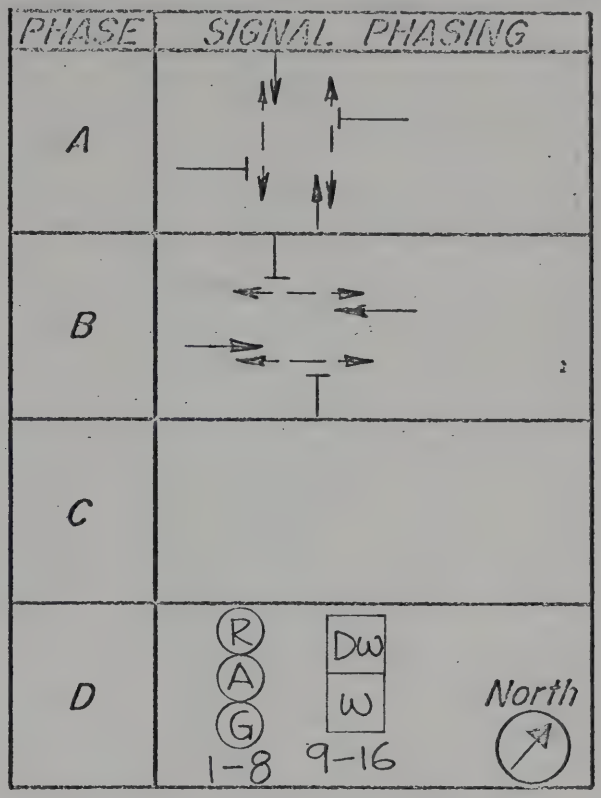
INTERSECTION: 1ST AVE. N. & N. 28 ST. CODE # 26

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-174 Intersection Photo Numbers: 6779-55, 6785-116



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9" X 12" INCANDESCENT PED. HEAD

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NO LEFT TURNS - E. & W. LEGS

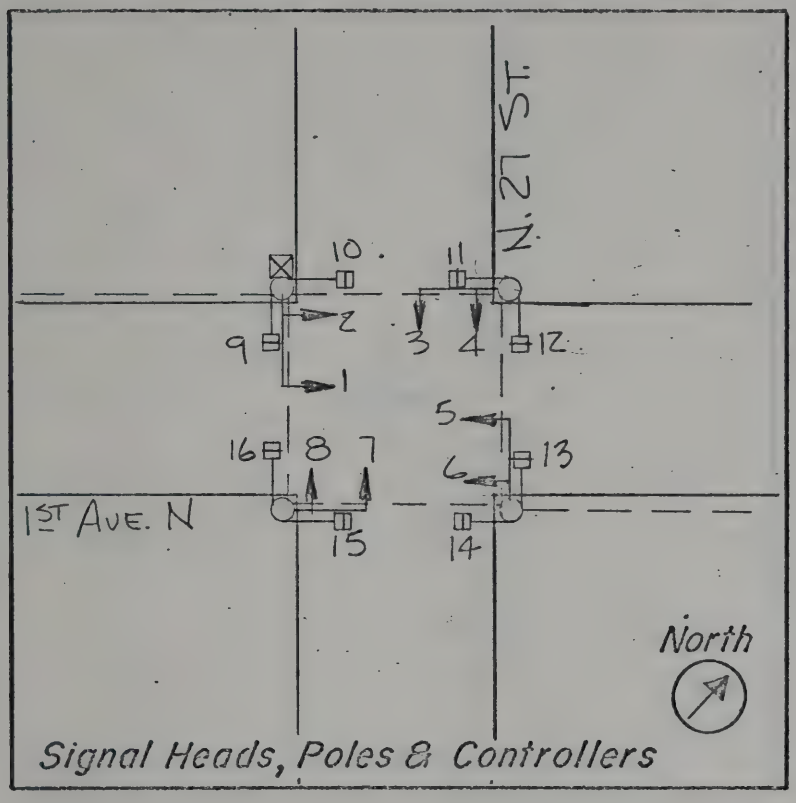
Parking Restrictions: METERED - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

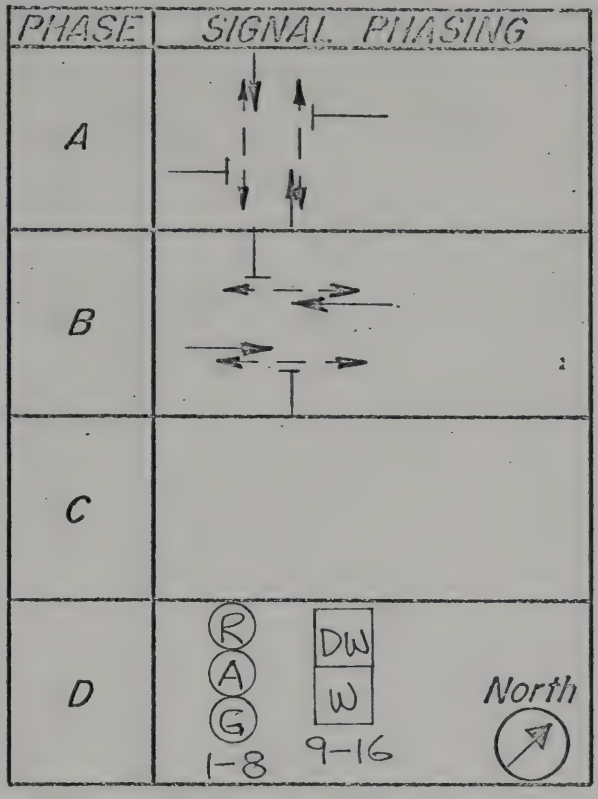
INTERSECTION: 1ST AVE N. & N. 27 ST. CODE # 27

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6791-172 Intersection Photo Numbers: 6780-63 6785-117



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCN-100-B

9" X 12" INCANDESCENT PED HEADS

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NO LEFT TURN - E & W. LEGS

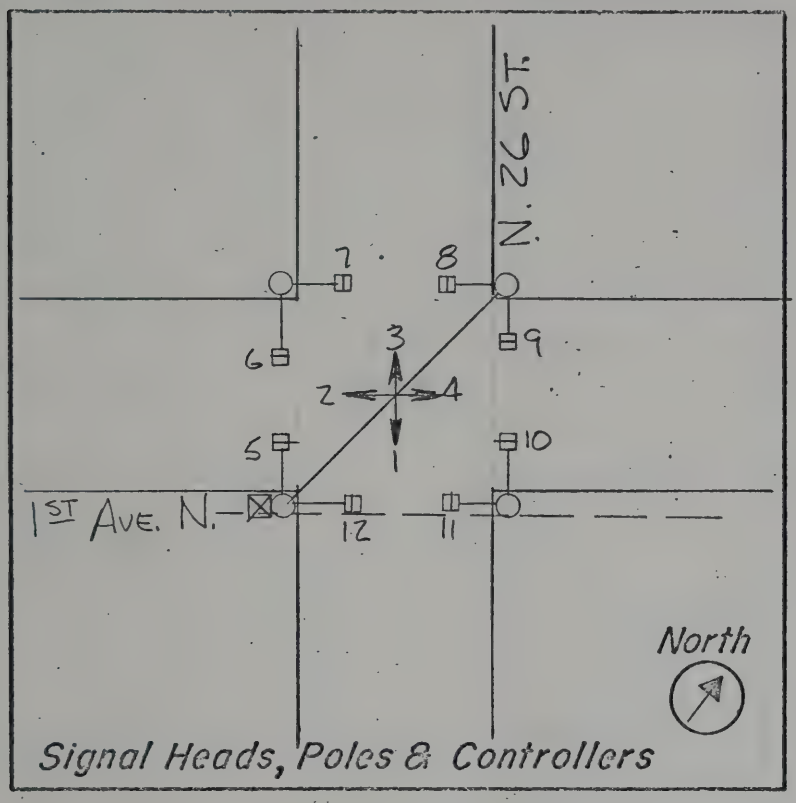
Parking Restrictions: METERED - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 1ST AVE. N. & N. 26 ST. CODE # 28

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6790-170 Intersection Photo Numbers: 6778-41, 6785-118



PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G 1-4 DW W 5-12 North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45	25	25	5			45	25	25	5								
Sec. 55	Sec	24.75	13.75	13.75	2.75			24.75	13.75	13.75	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Φ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

9" X 12" INCANDESCENT PED. HEAD

Signal Coordination: CABLE INTERCONNECT

Turn Restrictions: NONE

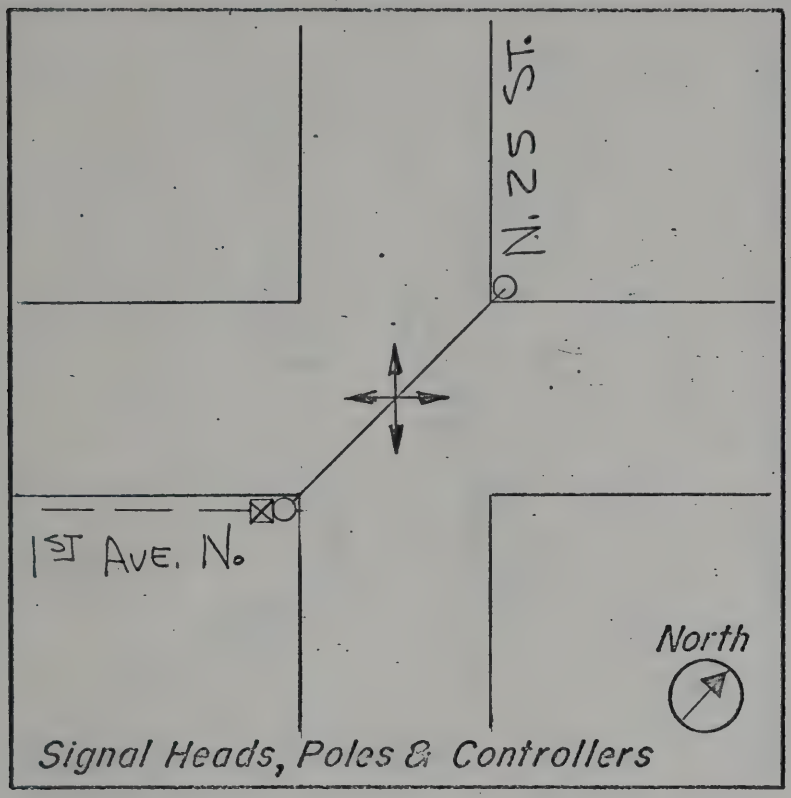
Parking Restrictions: METERED - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

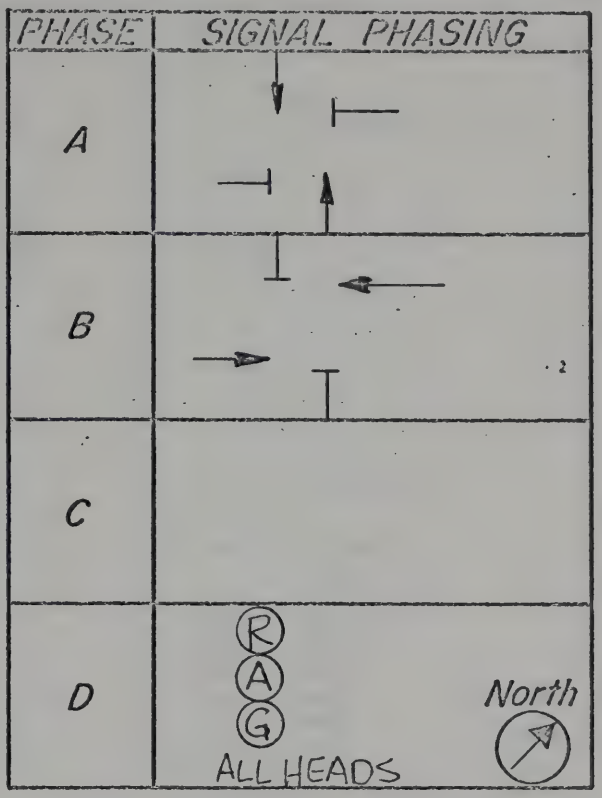
INTERSECTION: 1ST AVE. N. & N. 25 ST. CODE # 29

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6790-169 Intersection Photo Numbers: 6678-40 6785-119



Signal Heads, Poles & Controllers



Dial & Cycle		EAST-WEST Green	Ped Walk	Ped Clear	Amber	All Red		NORTH-SOUTH Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

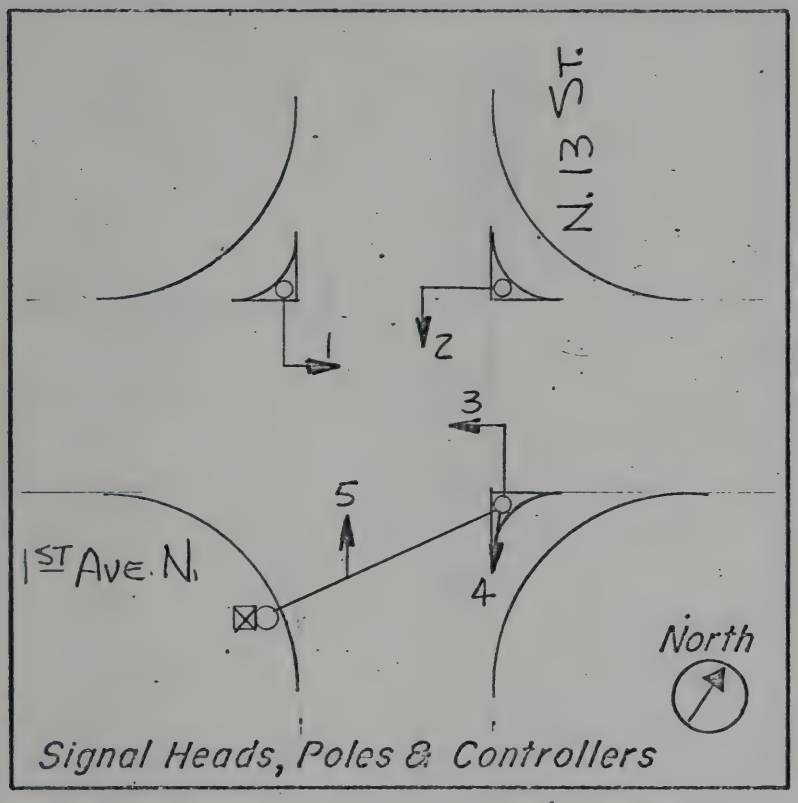
Parking Restrictions: NONE

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

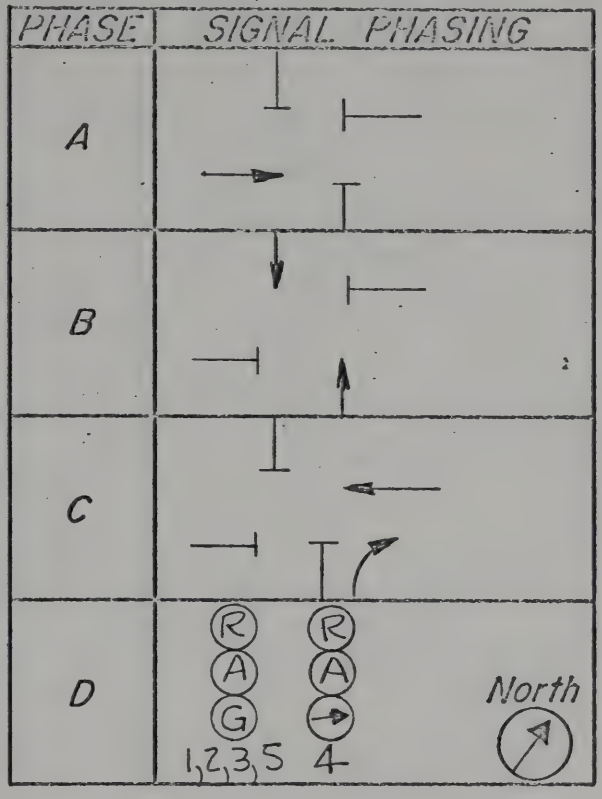
INTERSECTION: 1ST AVE. N. & N. 13 ST. CODE # 30

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6793-205 Intersection Photo Numbers: 6788-147, 6788-148



Signal Heads, Poles & Controllers



		EAST-~~WEST~~						NORTH-SOUTH						WESTBOUND					
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	25			5			25			5			35			5		
Sec. 60	Sec	15			3			15			3			21			3		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

3Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: NONE

Turn Restrictions: NONE

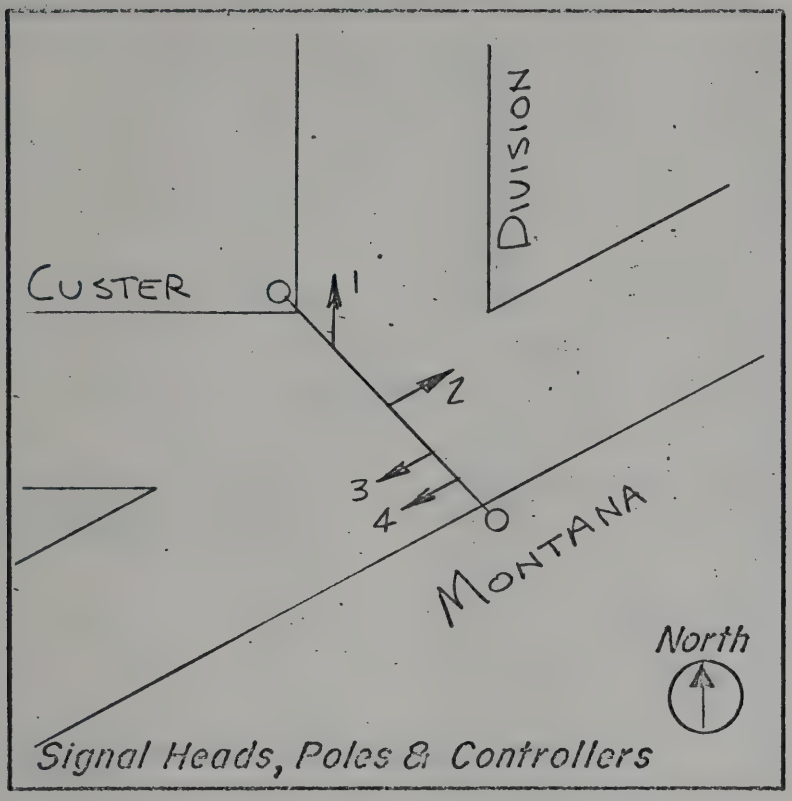
Parking Restrictions: N.P.- E., W., S. LEGS

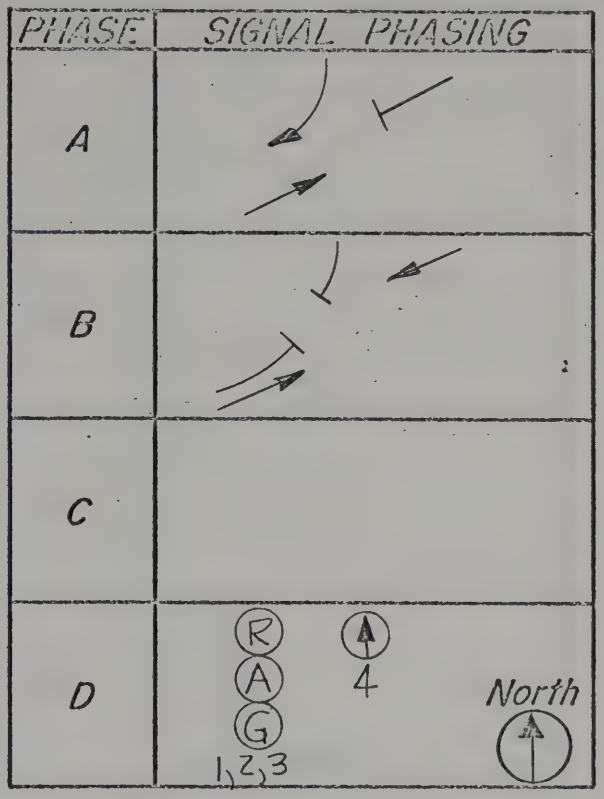
#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: MONTANA AVE. & DIVISION ST. CODE # 31

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6793-200 Intersection Photo Numbers: 6782-89, 6781-14





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	33			5			57			5								
Sec. 60	Sec	19.8			3			34.2			3								
	Pins																		
# 2	%	31			4			61			4								
Sec. 70	Sec	21.7			2.8			42.7			2.8								
	Pins																		
# 3	%	43			4			49			4								
Sec. 80	Sec	34.4			3.2			39.2			3.2								
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 3 DIAL, FIXED TIME

CROUSE-HINDS, TYPE PCE-1000

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NO LEFT TURN -- N. LEG

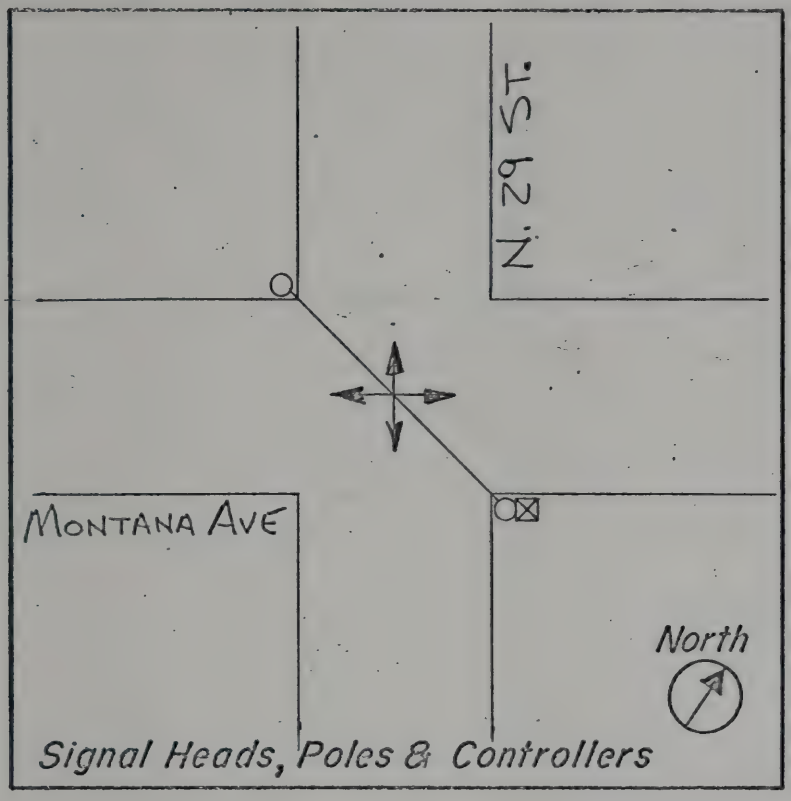
Parking Restrictions: N.P. - W. SIDE N. LEG, E & W LEGS

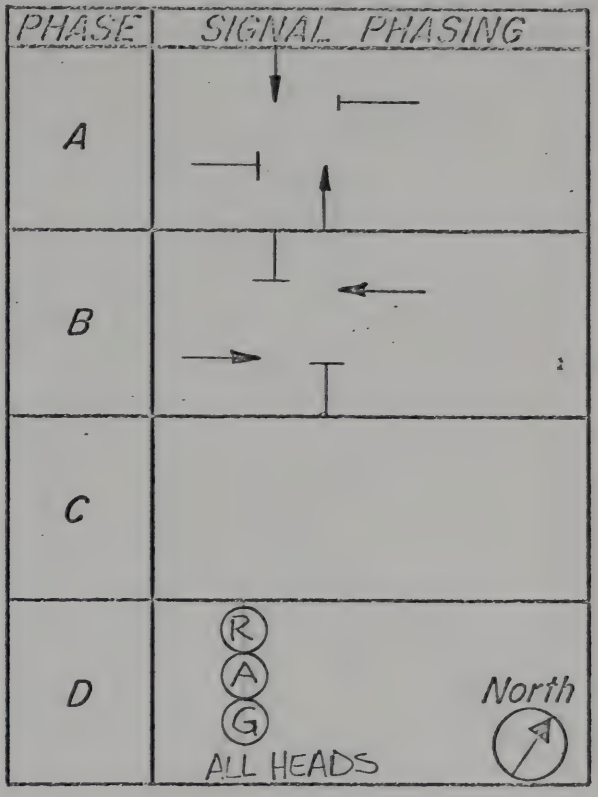
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: MONTANA AVE & N. 29 ST. CODE # 32

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6790-166 Intersection Photo Numbers: 6781-76, 6784-110





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

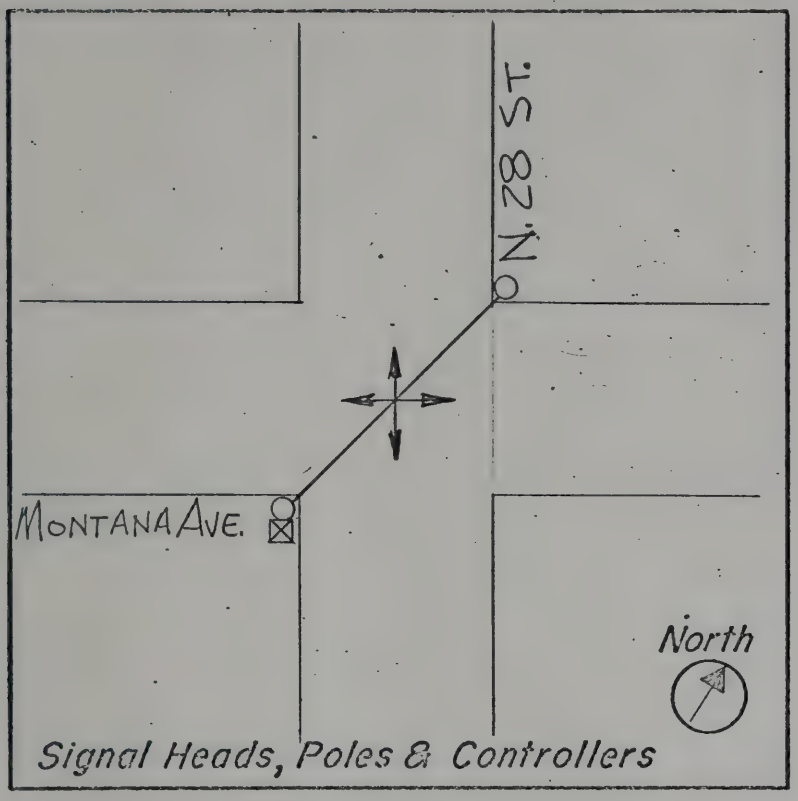
Parking Restrictions: METERED - ALL LEGS

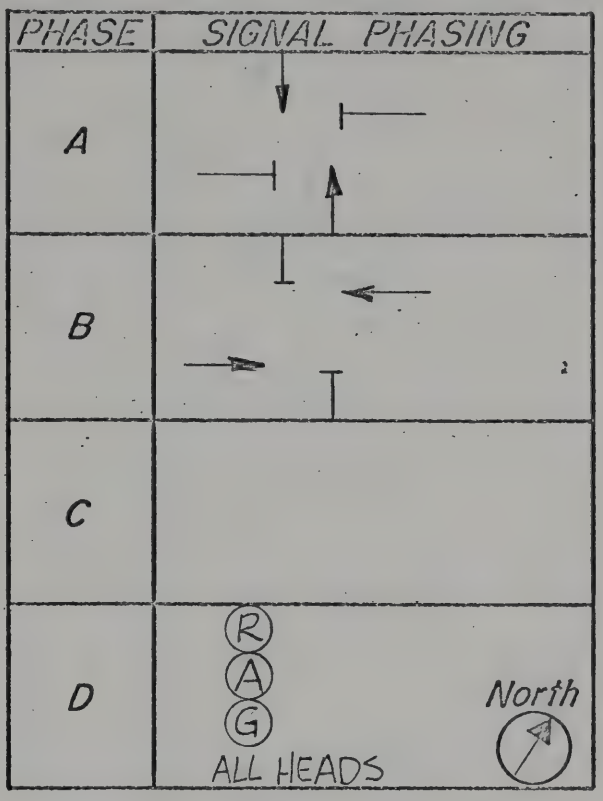
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: MONTANA AVE & N. 28 ST. CODE # 33

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6790-167 Intersection Photo Numbers: 6779-56, 6784-111





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

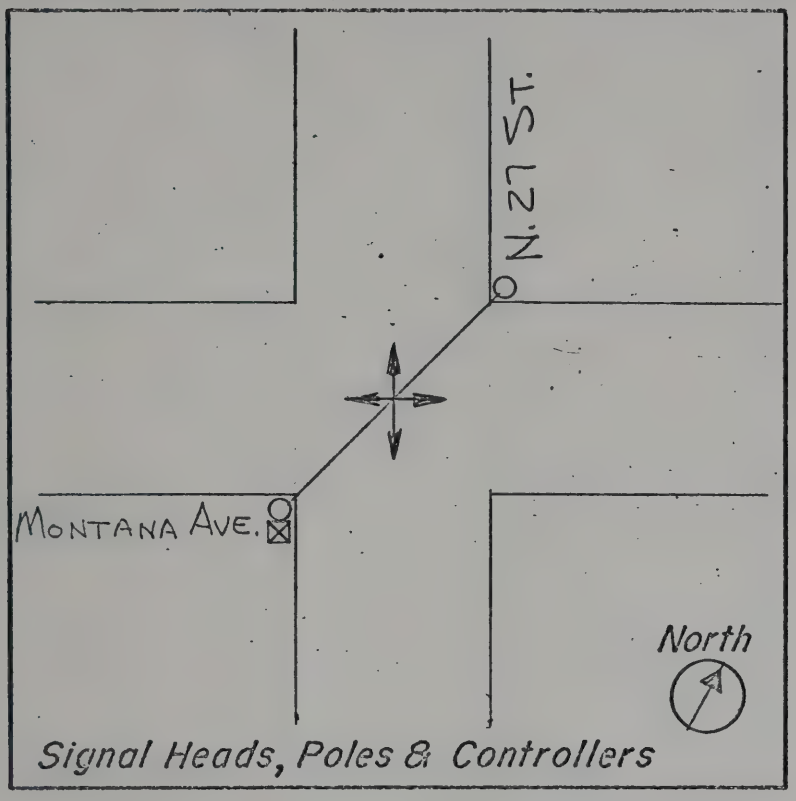
Parking Restrictions: N. P. - E. SIDE N. LEG., METERED - W. SIDE N. LEG, E., W., S. LEGS.

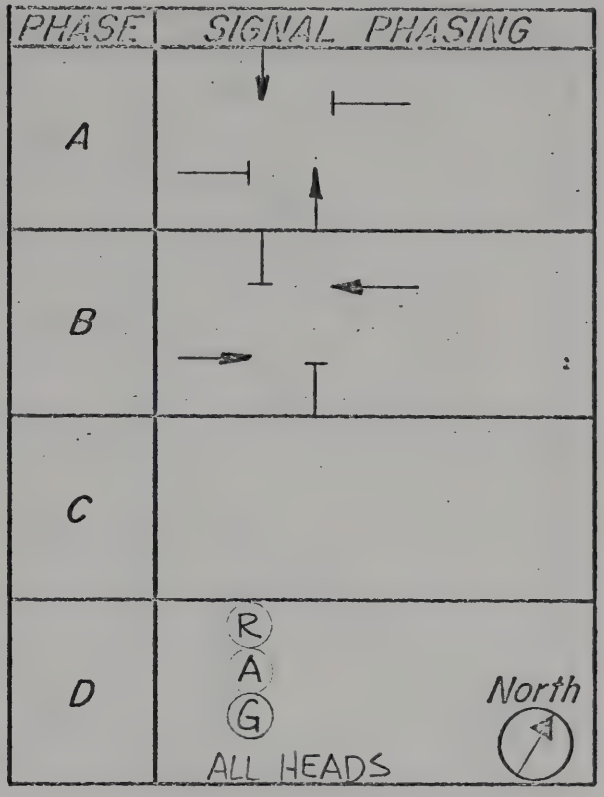
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: MONTANA AVE. & N. 27 ST. CODE # 34

AREA TYPE: DOWNTOWN ☒ OUTLYING ☐ INTERMEDIATE ☐

Controller Photo Numbers: 6790-168 Intersection Photo Numbers: 6778-49, 6784-112





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

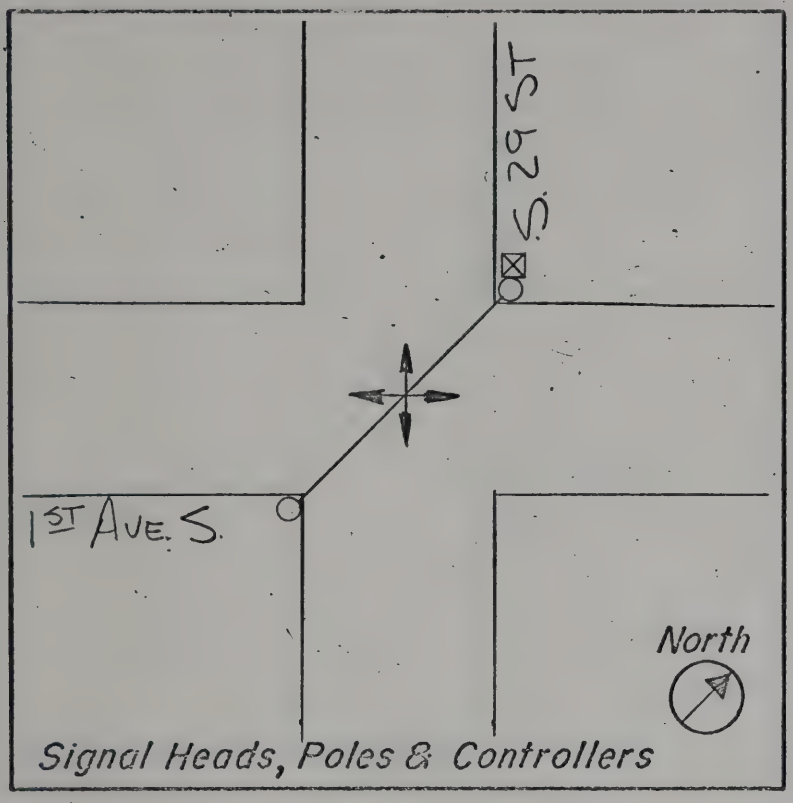
Parking Restrictions: METERED — ALL 1 EGS

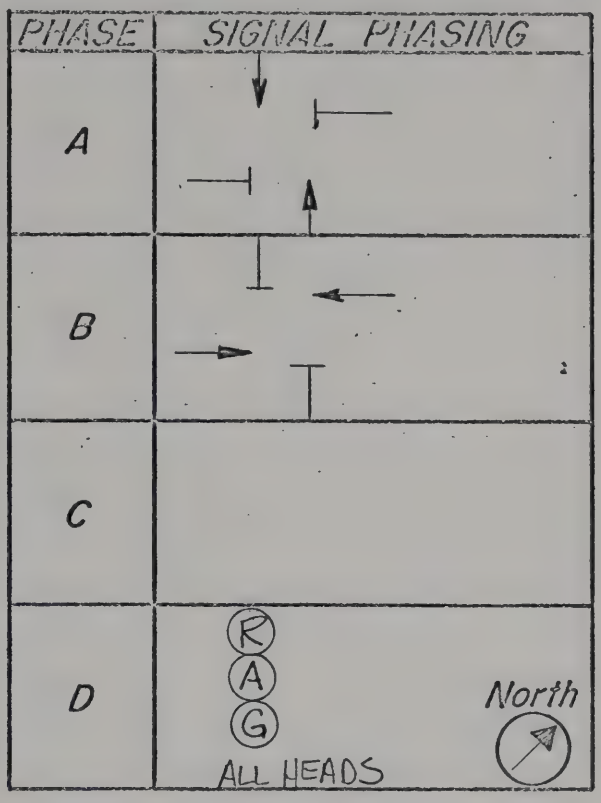
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 1ST AVE. S. & S 29 ST. CODE #: 35

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6790-165 Intersection Photo Numbers: 6781-77, 6784-107





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	60			7			28			5								
Sec. 70	Sec	42			4.9			19.6			3.5								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

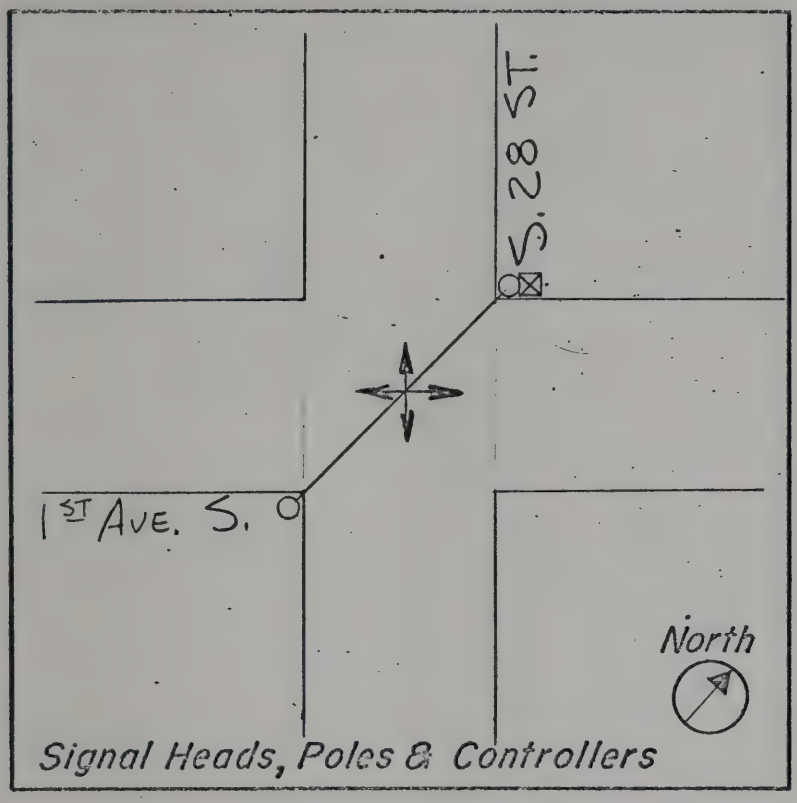
Parking Restrictions: N.P. - E. & W. LEGS, N.P. TUES, THUR, SAT. 3A-7A ON N. LEG.

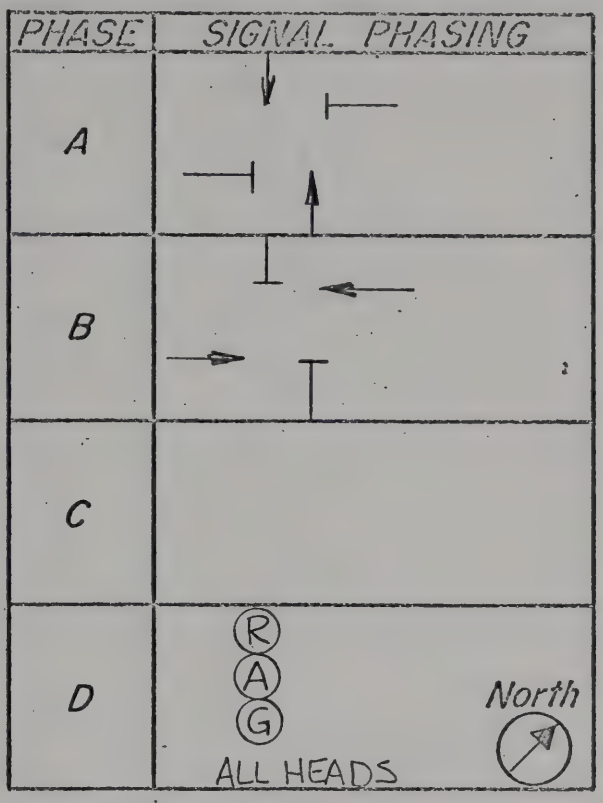
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 1ST AVE. S. & S. 28 ST. CODE # 36

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6790-163 Intersection Photo Numbers: 6779-57, 6784-108





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	60			7			28			5								
Sec. 70	Sec	42			4.9			19.6			3.5								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: HAND SYNC.

Turn Restrictions: NONE

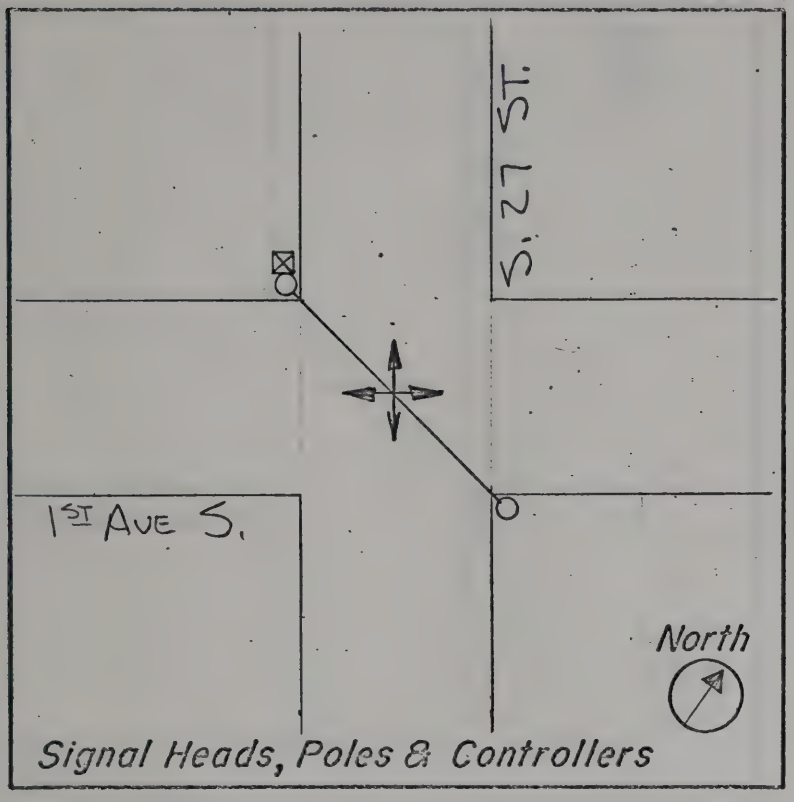
Parking Restrictions: N.P. - E & W. LEGS

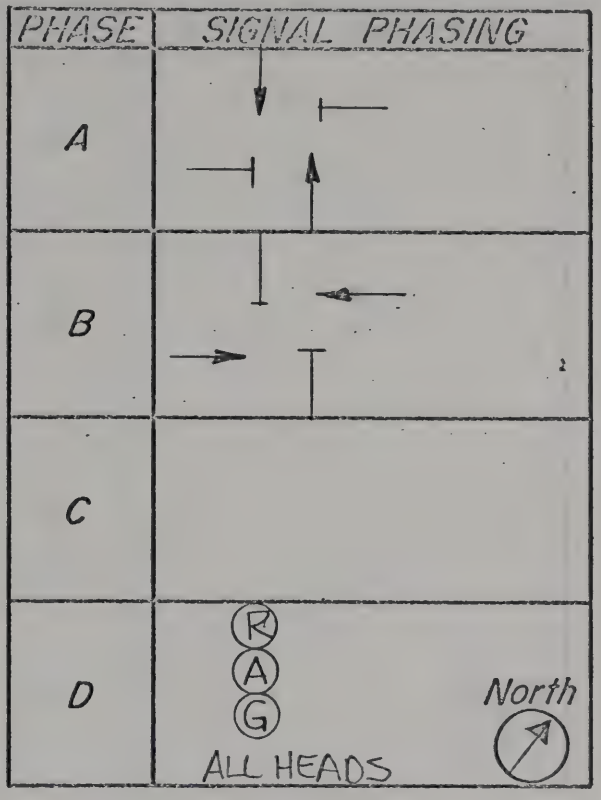
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 1ST AVE. S. & S. 27 ST. CODE # 37

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6790-162 Intersection Photo Numbers: 6780-65 6784-109





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	60			7			28			5								
Sec. 70	Sec	42			4.9			19.6			3.5								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ∅, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

MASTER CONTROLLER FOR INTERCONNECTED SYSTEM

Signal Coordination: INTERCONNECTED

Turn Restrictions: NONE

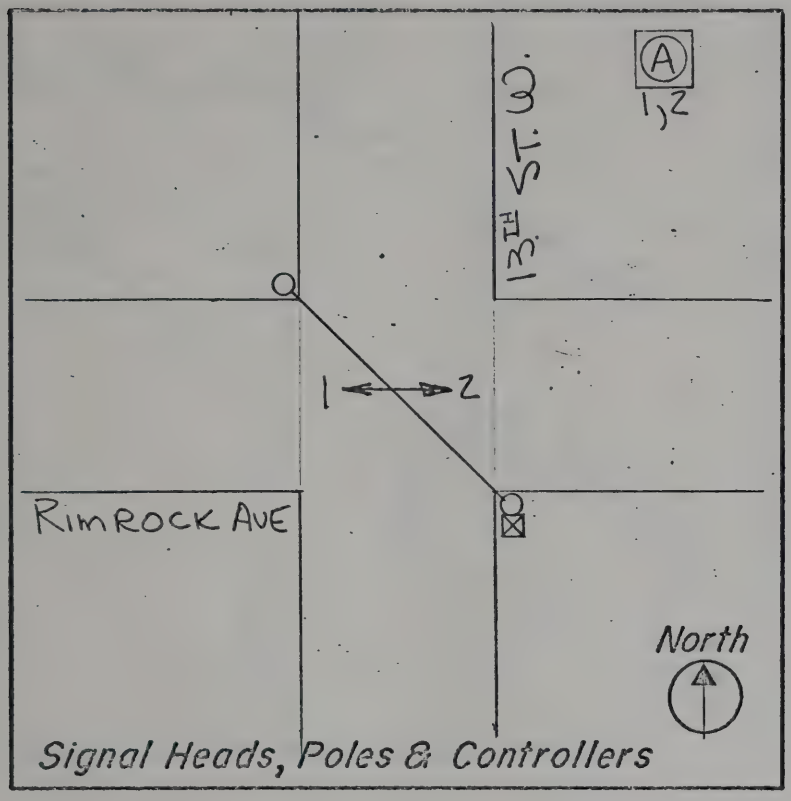
Parking Restrictions: N.P. - E & W. LEGS, METERED - N. LEG (NP 3A-7A TUES., TH., SAT.)

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: RIMROCK RD & 13 ST. W. CODE #38

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6777-38 Intersection Photo Numbers: 6783-98 6783-99



PHASE	SIGNAL PHASING
A	
B	
C	
D	North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

GENERAL ELECTRIC FLASHER, TYPE T-27 TIME SWITCH 1 POLE, 2 THROW MODEL # 3727 CAA4, SWITCH RATING 230 V. A.C. 35 AMP. MOTOR RATING 115 V. A.C. 60 C.Y.C.

Signal Coordination: NONE

Turn Restrictions: NONE

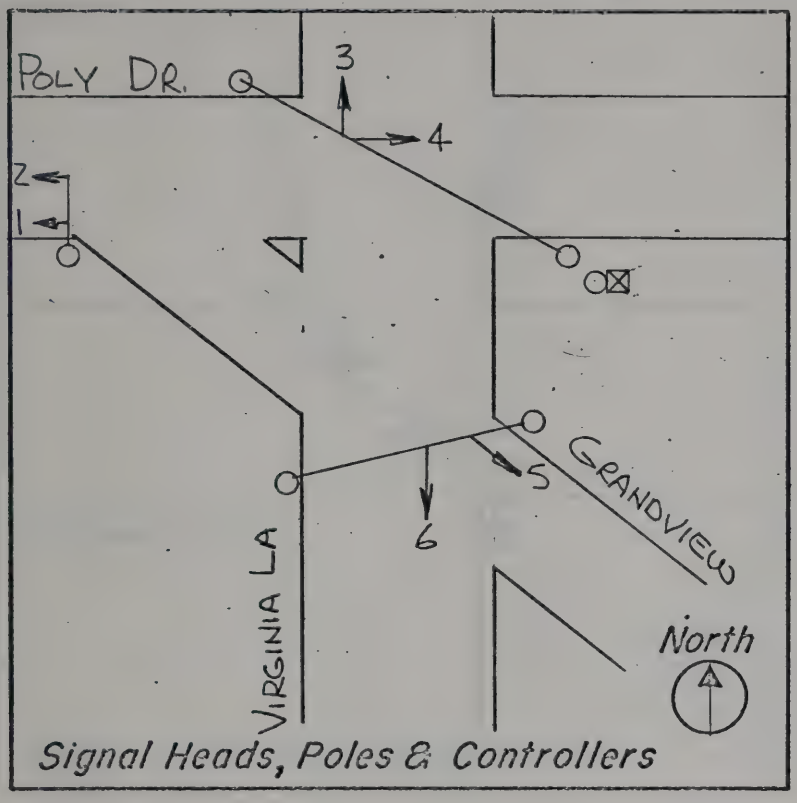
Parking Restrictions: NONE

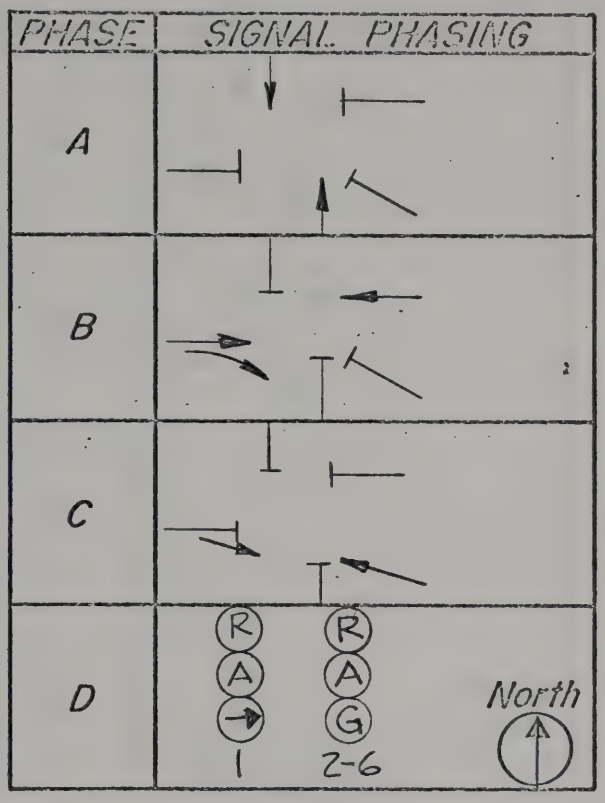
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: POLY DR & VIRGINIA LA. CODE # 39

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐ 6783-95 6783-96

Controller Photo Numbers: 6794-209 Intersection Photo Numbers: 6783-97





		EAST-WEST						NORTH-SOUTH						NORTHWEST					
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red	RIGHT ARROW	Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	36			6		54	22			7			24			5		
Sec 70	Sec	25.2			4.2		37.8	15.8			4.9			16.8			3.5		
	Pins																		
#	%																		
Sec	Sec																		
	Pins																		
#	%																		
Sec	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

3 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-5

Signal Coordination: NONE

Turn Restrictions: NO RT. TURN ON RED - ALL LEGS

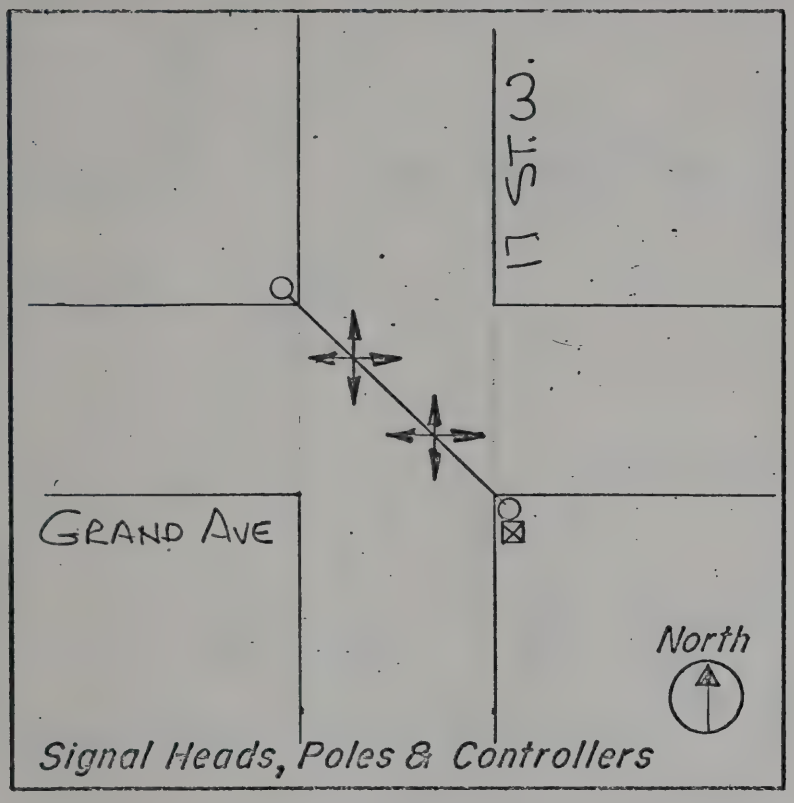
Parking Restrictions: N.P. WITHIN 200' - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

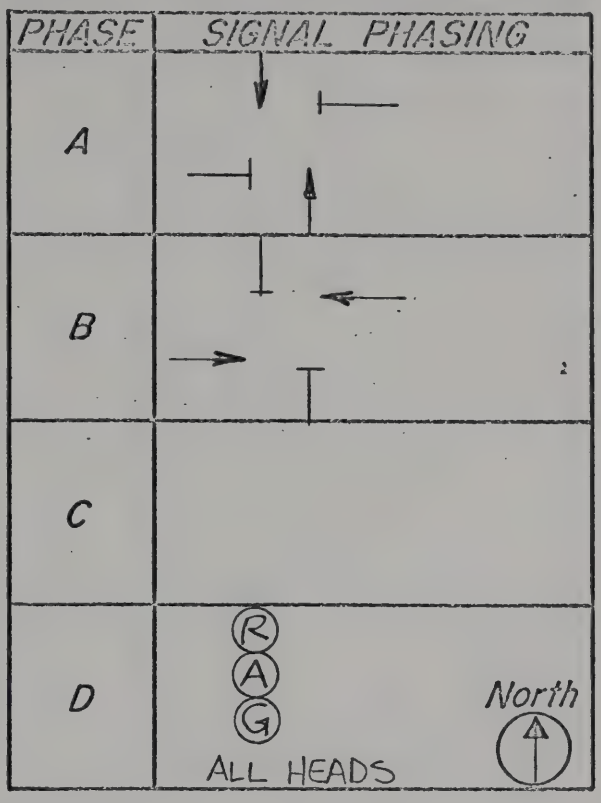
INTERSECTION: GRAND AVE & 17TH ST W. CODE # 40

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6775-17, 6775-18, 6775-19 Intersection Photo Numbers: 6774-7, 6774-8



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	54			6			34			6								
Sec. 50	Sec	27			3			17			3								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: NONE

Turn Restrictions: NONE

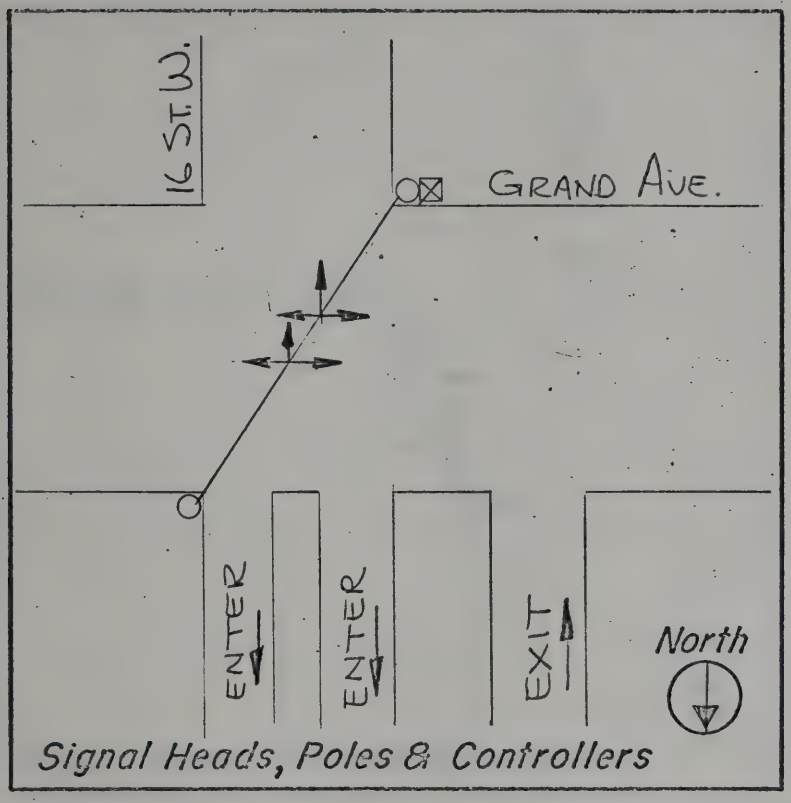
Parking Restrictions: N.P.- 200' ON E. LEG & S. SIDE W. LEG

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

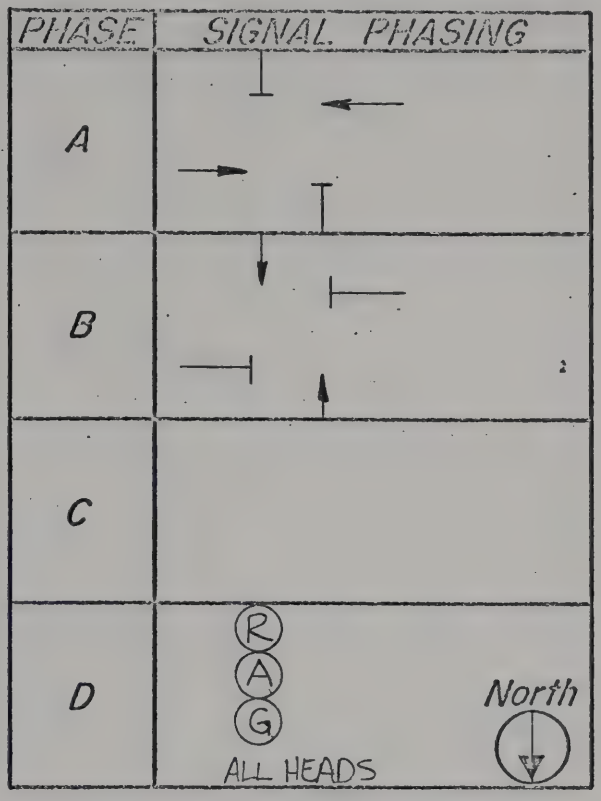
INTERSECTION: GRAND AVE & 16 ST W. CODE # 41

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐ 6776-22

Controller Photo Numbers: 6775-21, 6775-20 Intersection Photo Numbers: 6776-24, 6776-26



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	54			6			34			6								
Sec. 50	Sec	27.0			3.0			17.0			3.0								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: NONE

Turn Restrictions: NONE

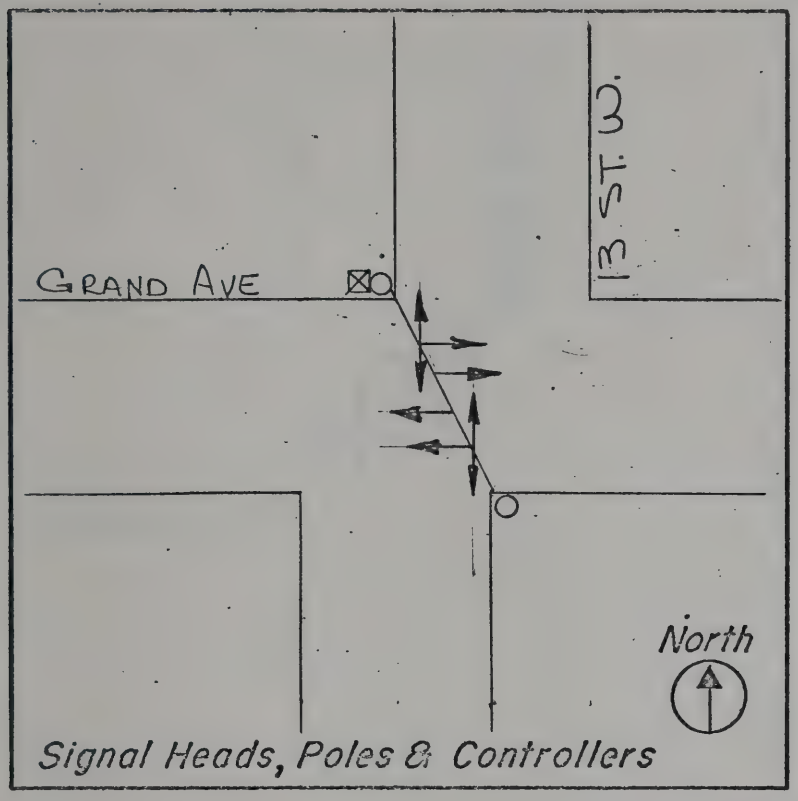
Parking Restrictions: N.P. - MIN. OF 200' FROM INTERSECTION ON ALL LEGS.

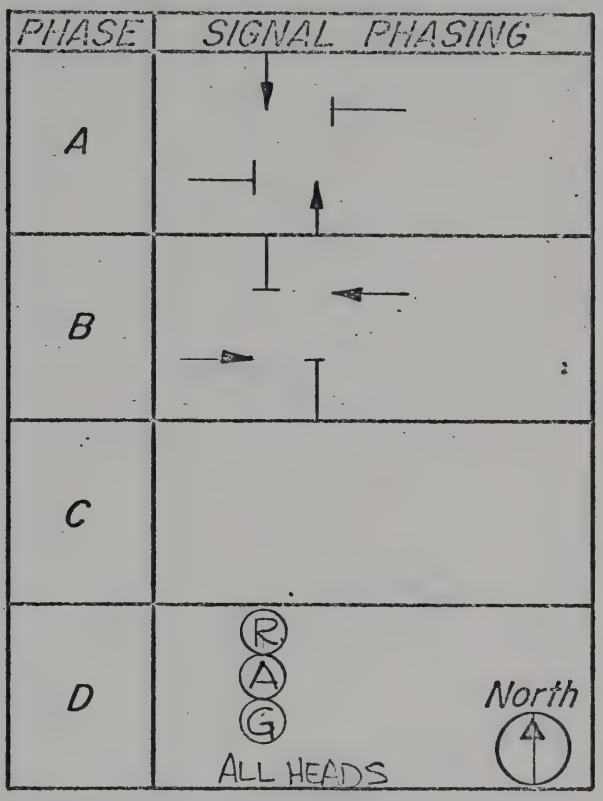
#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: GRAND AVE. & 13 ST. W. CODE # 42

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6777-34, 6777-36 Intersection Photo Numbers: 6776-29, 6776-30





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	54			6			34			6								
Sec.	Sec	27			3.0			17			3.0								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: NONE

Turn Restrictions: NONE

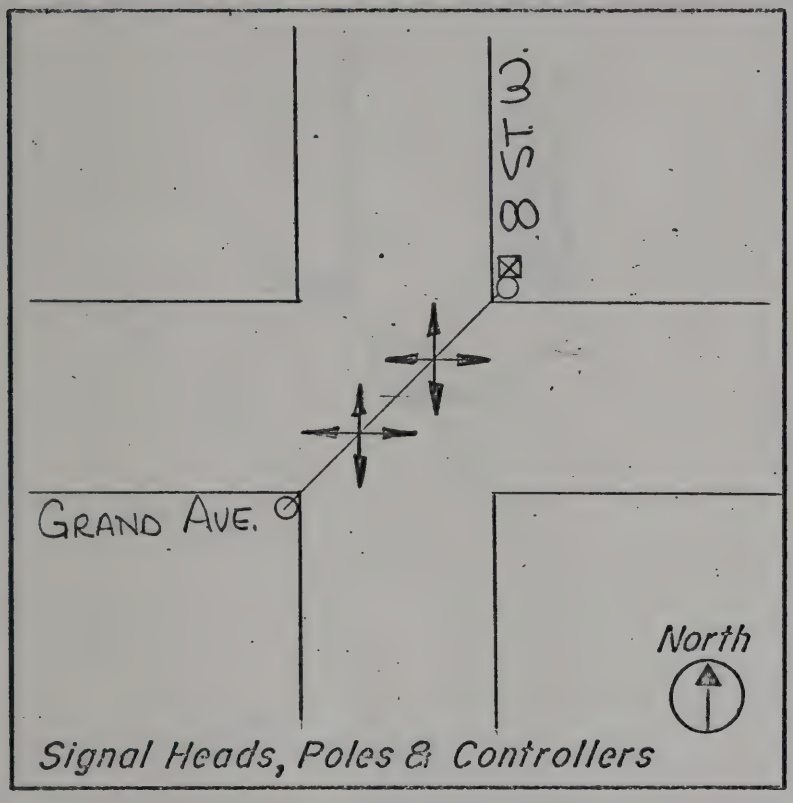
Parking Restrictions: N.P.- MIN. OF 200' FROM INTERSECTION ON ALL LEGS.

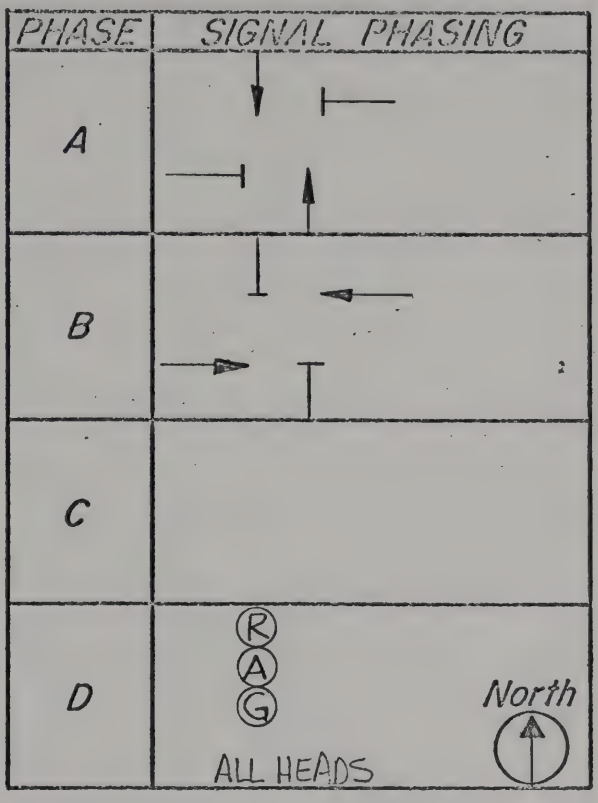
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: GRAND AVE. & 8 ST. W. CODE # 43

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6794-210 Intersection Photo Numbers: 6783-100 6783-101





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	54			5			36			5								
Sec. 55	Sec	29.75			2.75			19.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

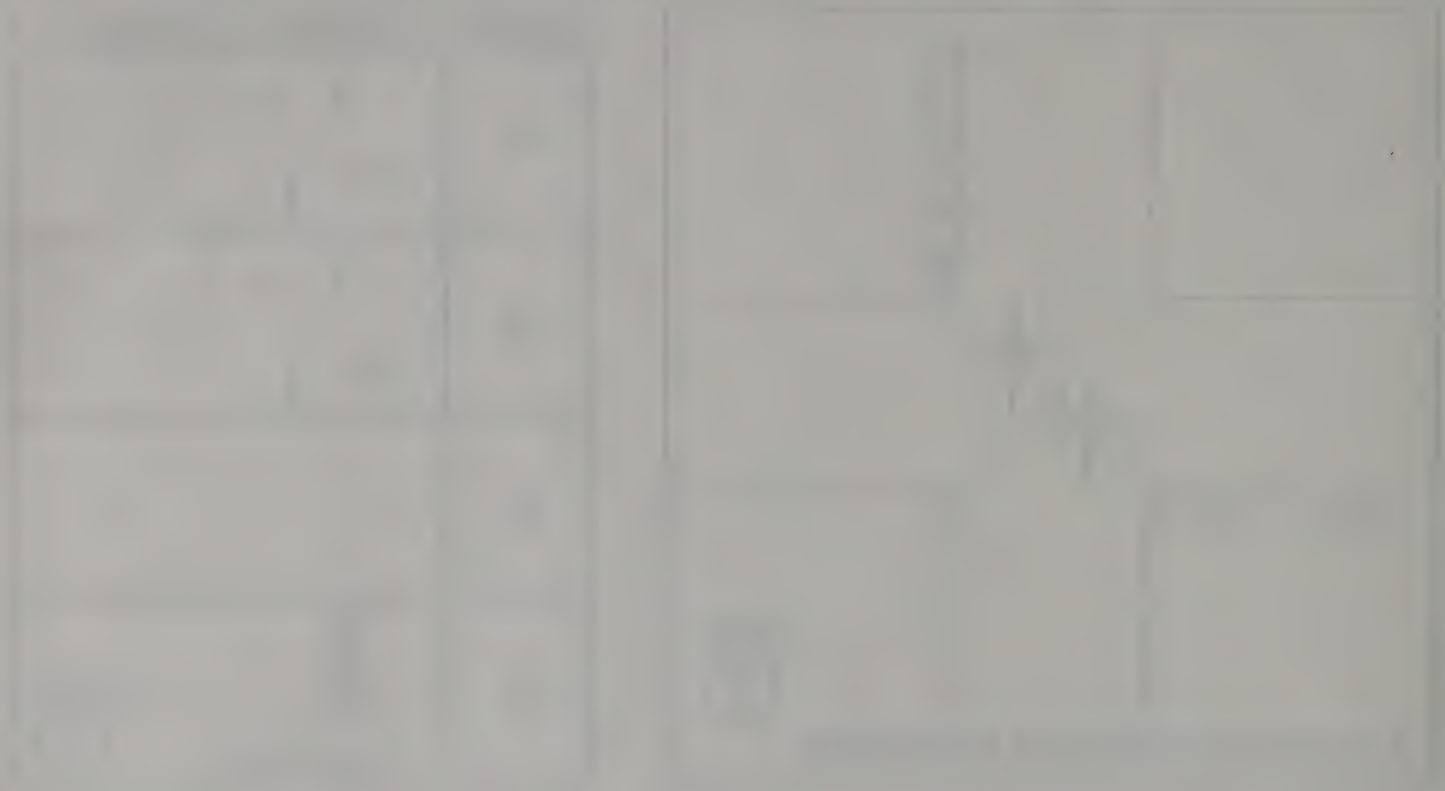
2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: NONE

Turn Restrictions: NONE

Parking Restrictions: N.P. – N., S. & N. SIDE OF E. LEG.

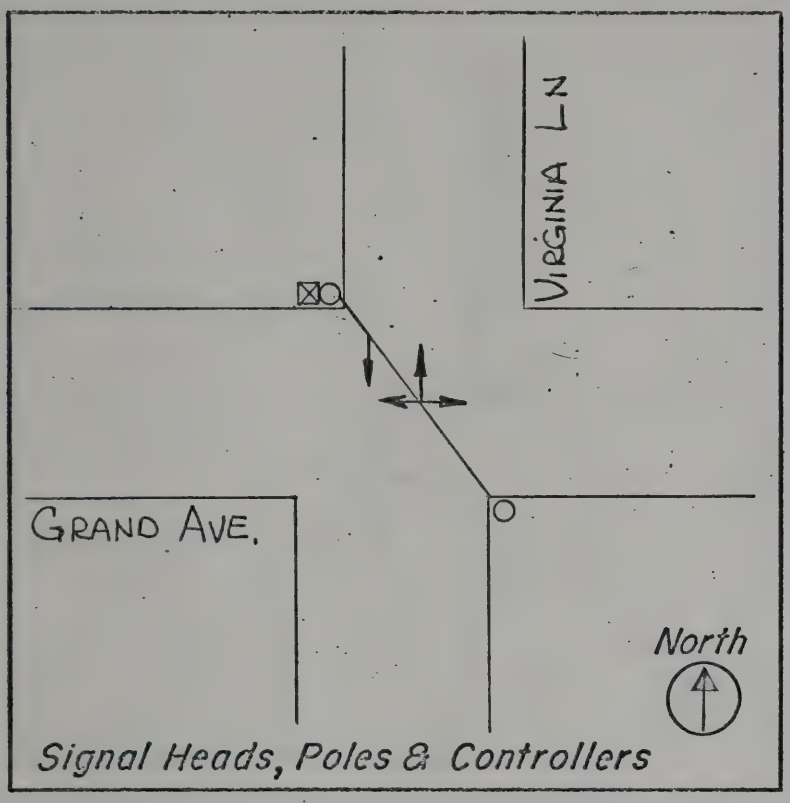


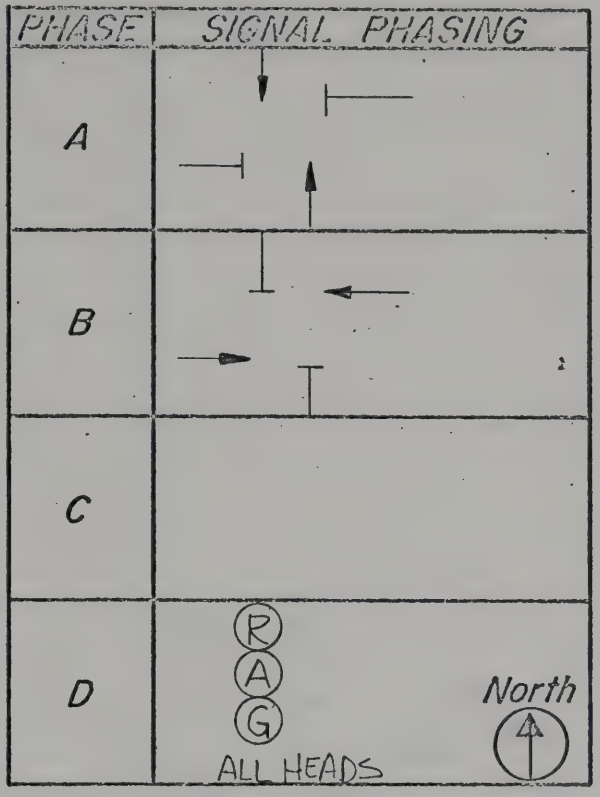
#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: GRAND AVE & VIRGINIA LN. CODE # 44

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6794-208 Intersection Photo Numbers: 6783-92, 6784-106





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	55			5			35			5								
Sec. 55	Sec	30.25			2.75			19.25			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

Signal Coordination: NONE

Turn Restrictions: NONE

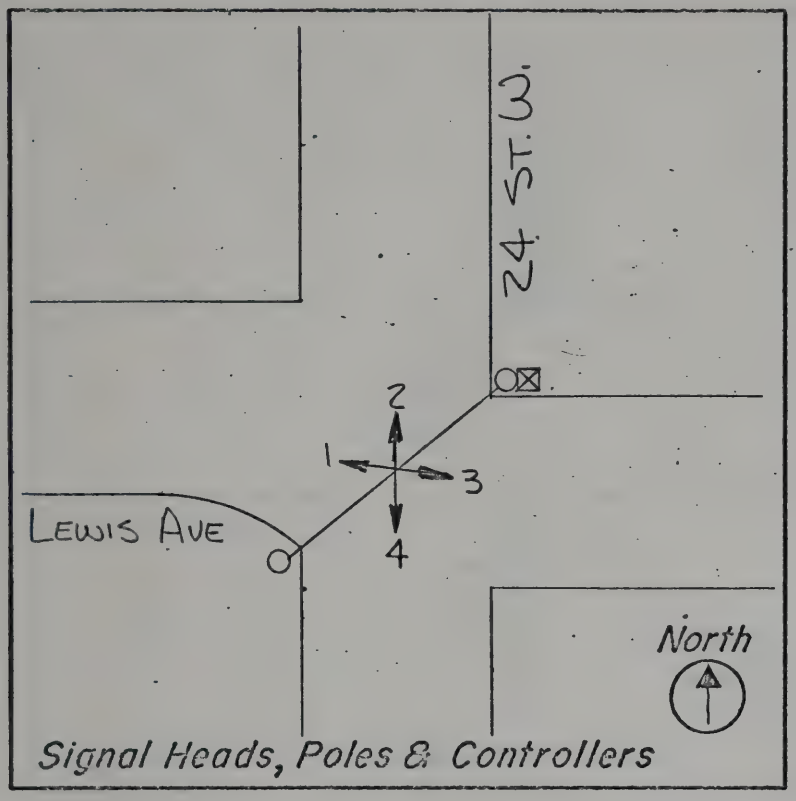
Parking Restrictions: N.P. - N, E, & S. LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: LEWIS AVE. & 24 ST. W. CODE # 45

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6775-12 Intersection Photo Numbers: 6774-4, 6774-5



PHASE	SIGNAL PHASING
A	
B	
C	
D	(R) 1,3 (A) 2,4 RED-AMBER BUNKER North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# ___ Sec. ___	%																		
	Sec																		
	Pins																		
# ___ Sec. ___	%																		
	Sec																		
	Pins																		
# ___ Sec. ___	%																		
	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)
CROUSE-HINDS, TYPE 636C-98

Signal Coordination: NONE

Turn Restrictions: NONE

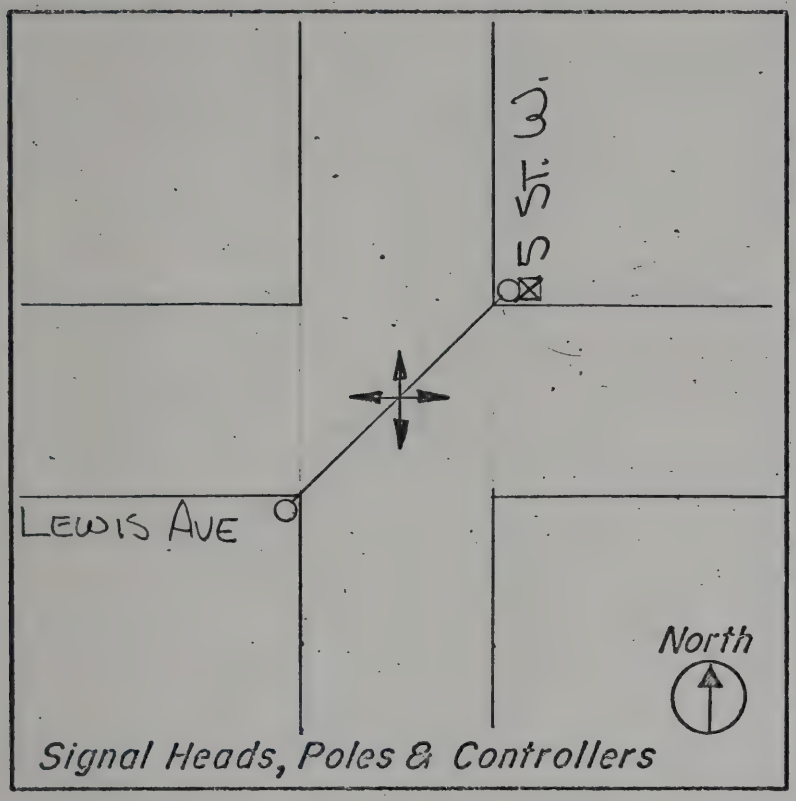
Parking Restrictions: N.P. SUN. - W. SIDE OF N. LEG.

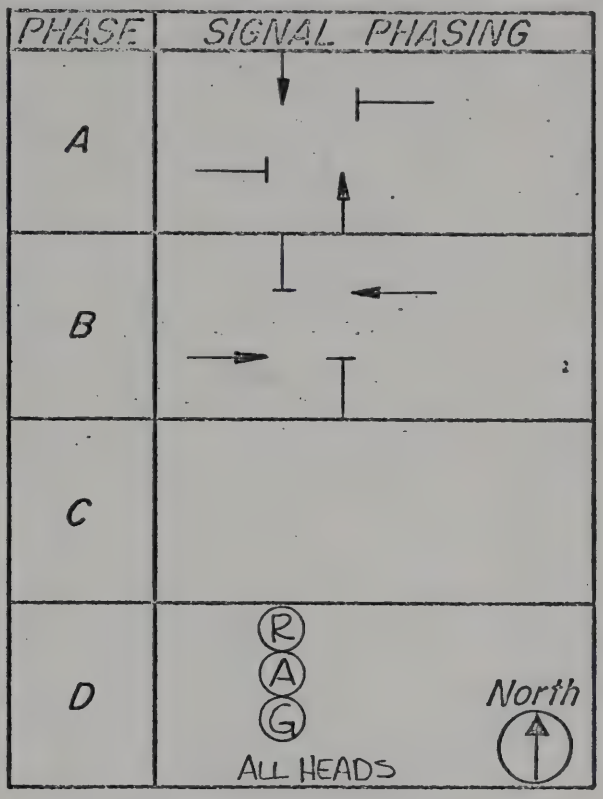
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: LEWIS AVE. & S 5T. W. CODE # 46

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6793-207 Intersection Photo Numbers: 6783-93, 6784-105





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.75			2.75			24.75			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

Signal Coordination: NONE

Turn Restrictions: NONE

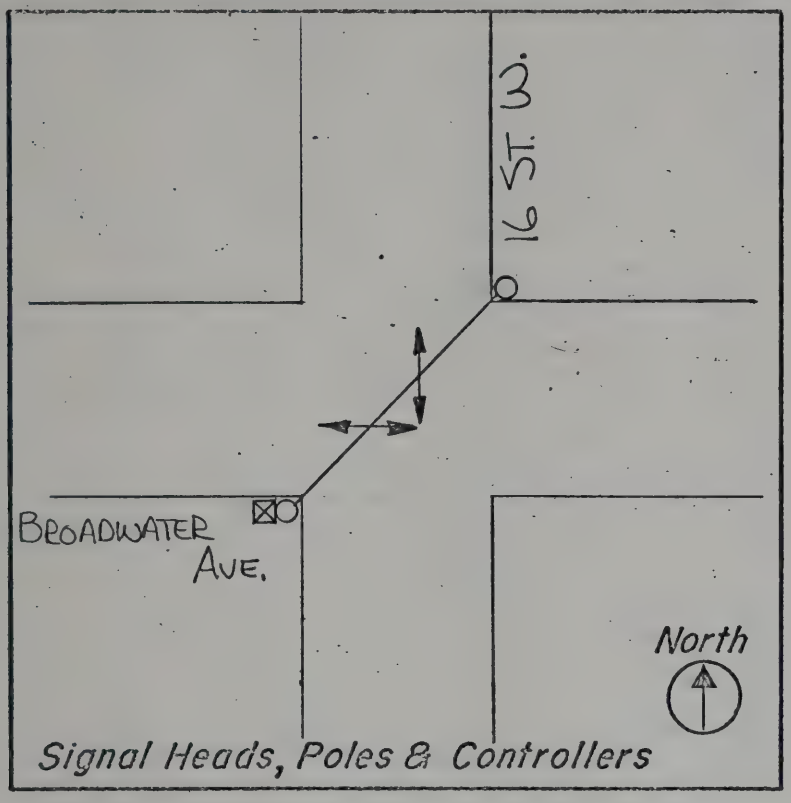
Parking Restrictions: N. P. - 200' FROM INTERSECTION ON N., S., & N. SIDE OF E., W. LEGS.

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

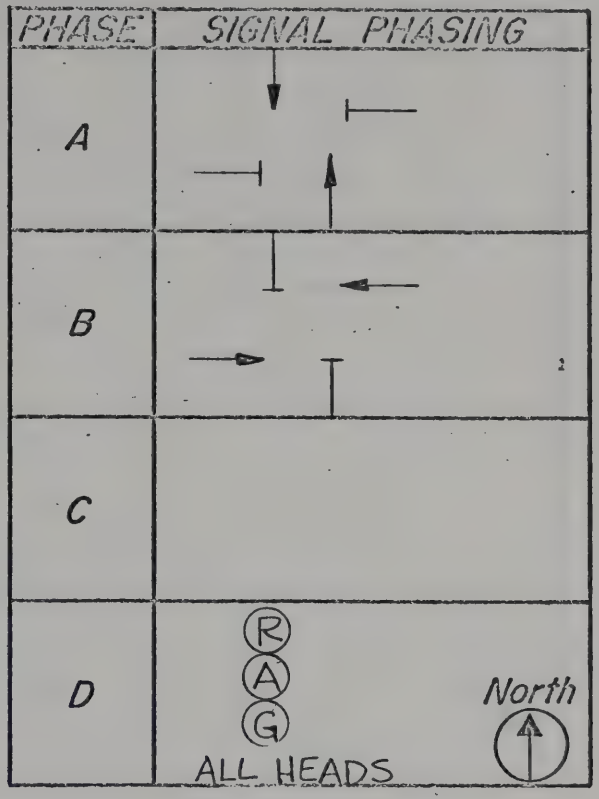
INTERSECTION: BROADWATER AVE & 16 ST. W. CODE # 47

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6775-14, 6775-15 Intersection Photo Numbers: 6774-2, 6774-3



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	55			5			35			5								
Sec. 55	Sec	30.25			2.75			9.25			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: NONE

Turn Restrictions: NONE

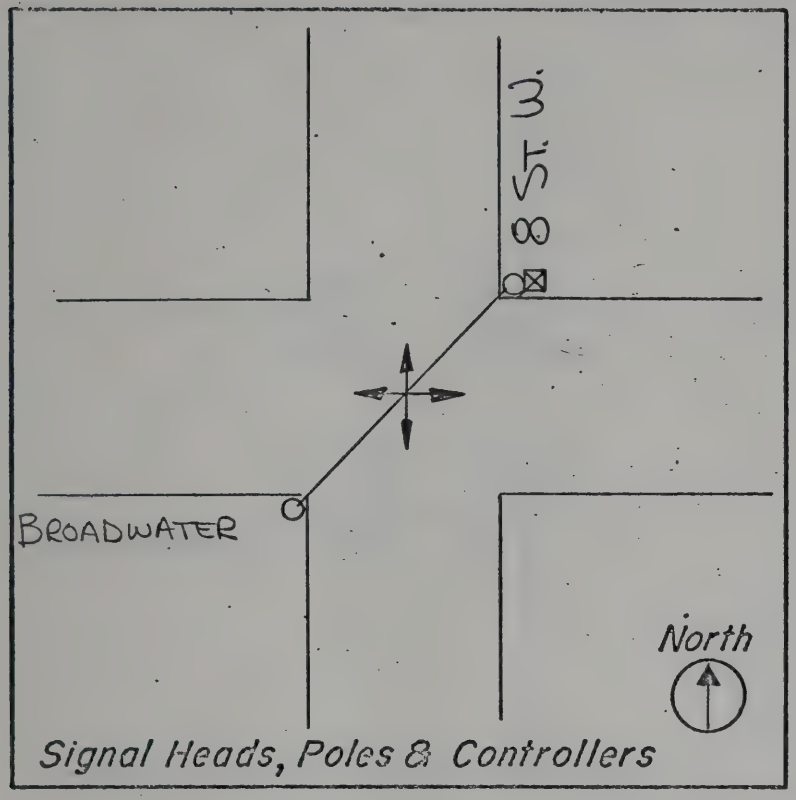
Parking Restrictions: NONE

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

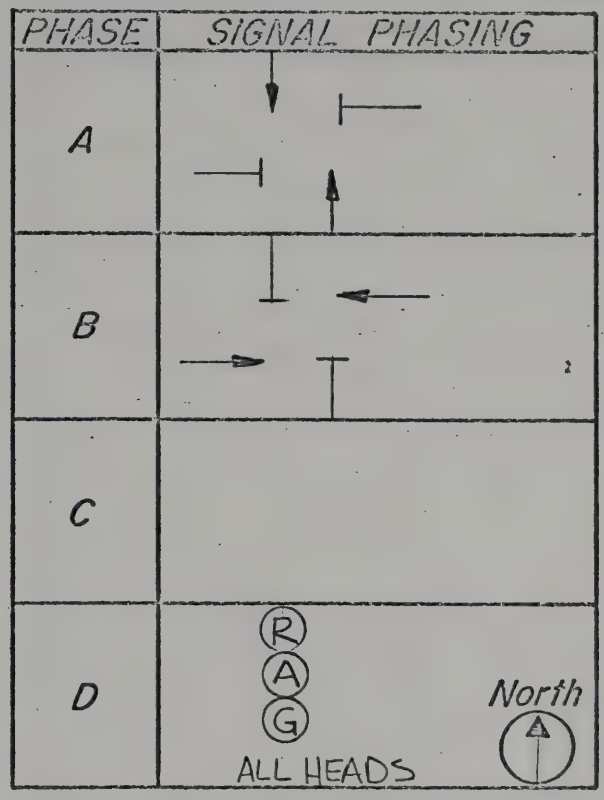
INTERSECTION: BROADWATER AVE & 8 ST. W. CODE # 48

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6794-211 Intersection Photo Numbers: 6784-102, 6784-103



PHASE	SIGNAL PHASING
A	
B	
C	
D	R A G ALL HEADS



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	55			5			35			5								
Sec. 55	Sec	30.25			2.75			19.25			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

Signal Coordination: NONE

Turn Restrictions: NONE

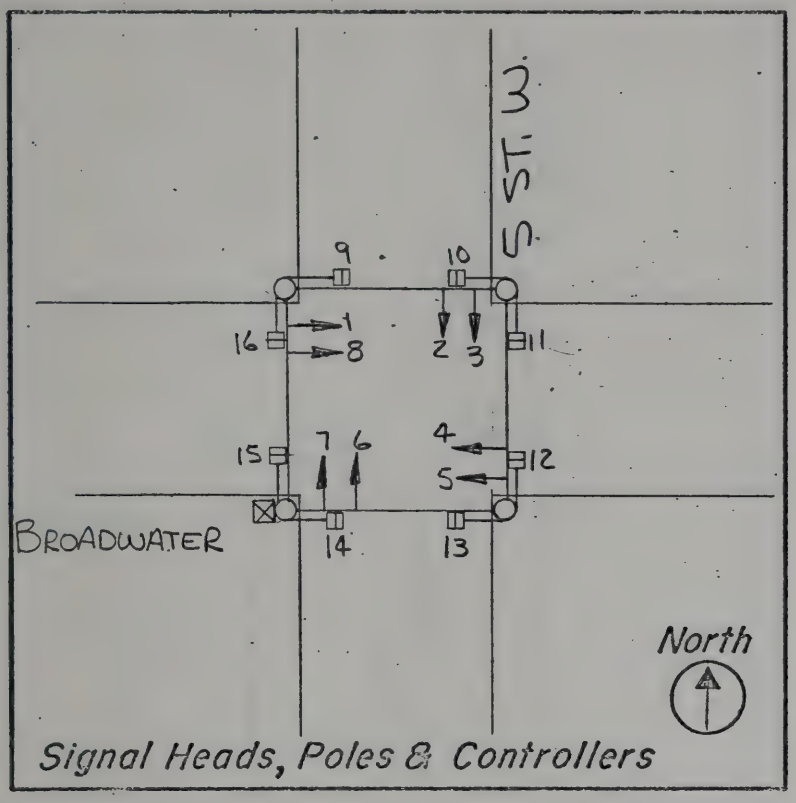
Parking Restrictions: N.P. - E & W. LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

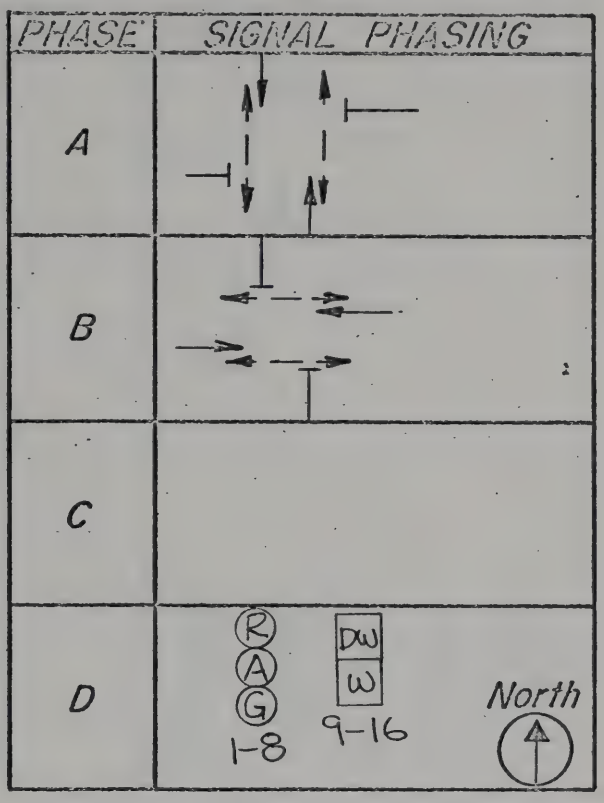
INTERSECTION: BROADWATER AVE & S ST. W. CODE # 49

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6793-206 Intersection Photo Numbers: 6784-104 6783-94



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	55	31	29	5			35	18	22	5								
Sec. 55	Sec	30.25	17.1	15.9	2.75			19.25	9.9	12.1	2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE KS-1

9" X 12" INCANDESCENT PED. HEADS

Signal Coordination: NONE

Turn Restrictions: NONE

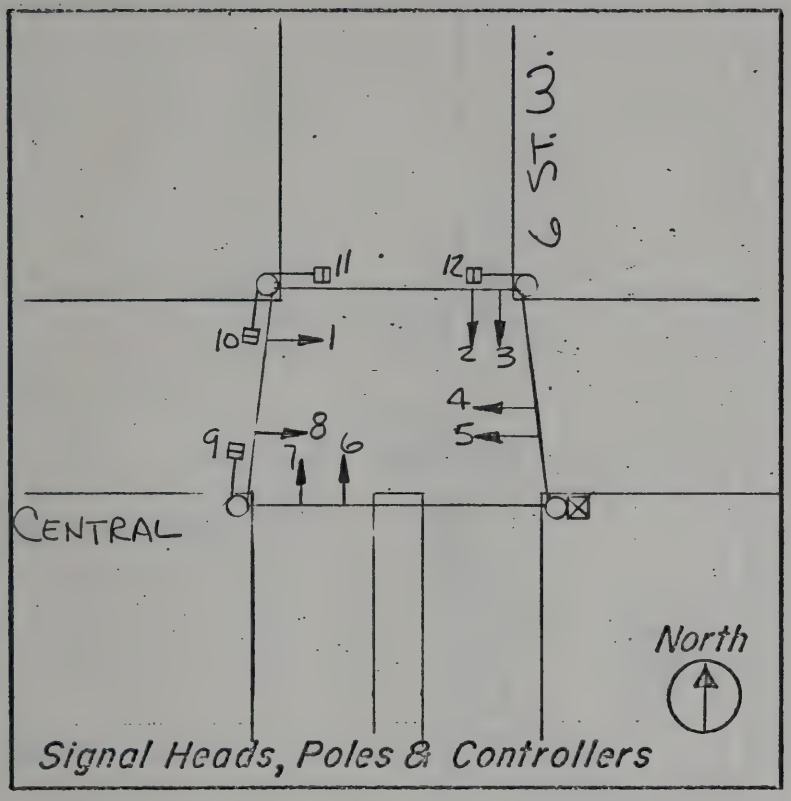
Parking Restrictions: N.P. – E. & W. LEGS

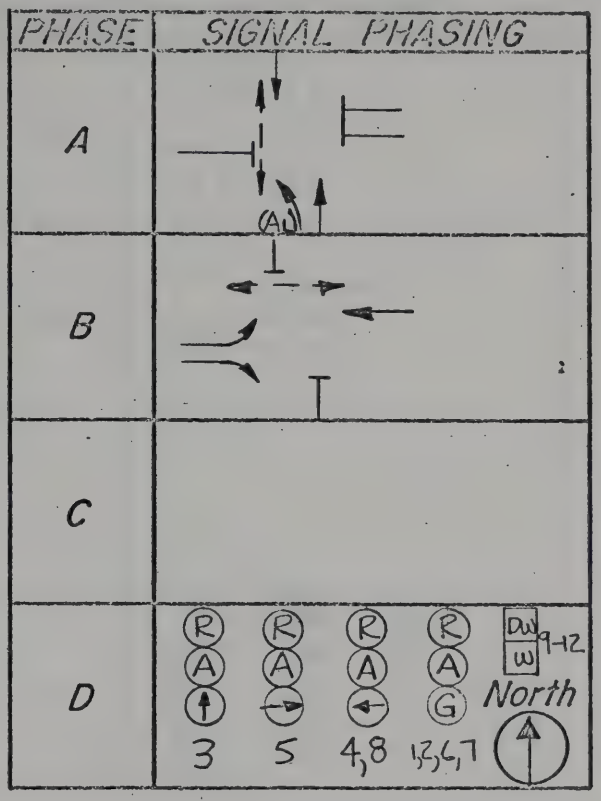
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: CENTRAL AVE & 6 ST W. CODE # 51

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6789-159 Intersection Photo Numbers: 6788-155, 6788-156





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red	Left Arrow	Green	Ped Walk	Ped Clear	Amber	All Red	Left Arrow	Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	28	27	6	5		22	30	15	20	5		10						
Sec. 60	Sec	16.8	16.2	3.8	3.0		13.2	18	9.0	12.0	3.0		6.0						
	Pins																		
# 2	%	29	25	9	5		21	31	16	20	5		9						
Sec. 70	Sec	20.3	17.5	6.3	3.5		14.7	21.7	11.2	14.0	3.5		6.3						
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

4 Ø, 3 DIAL, FIXED TIME

ECONOLITE, CATA. NO. ZTC246F21 (MASTER UNIT) FLASHER + ALL RED

9" X 12" INCANDESCENT PED. HEADS.

Signal Coordination: CABLE INTERCONNECT

Turn Restrictions: NONE

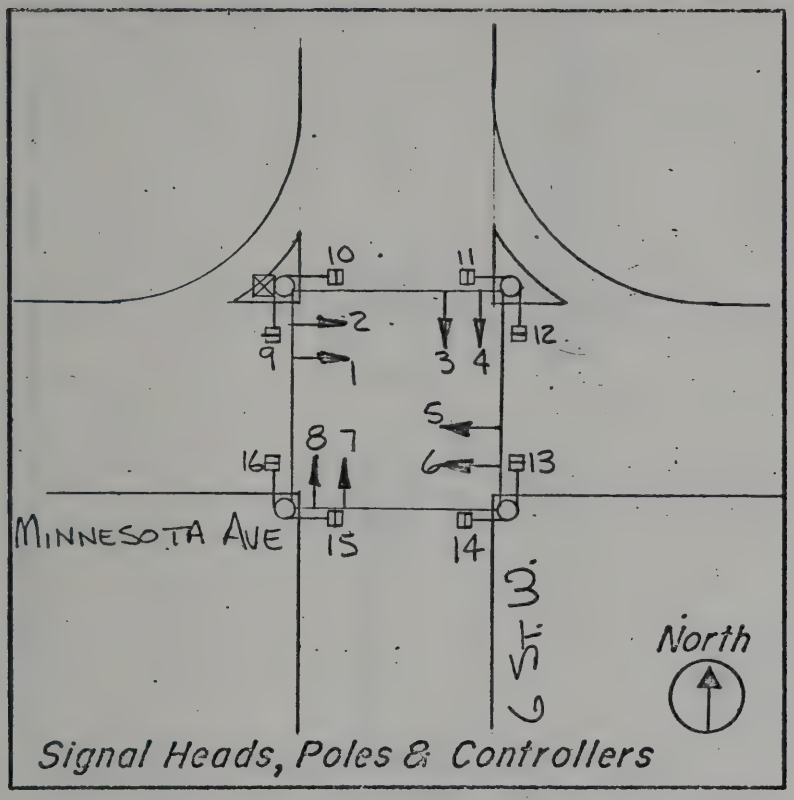
Parking Restrictions: NONE

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

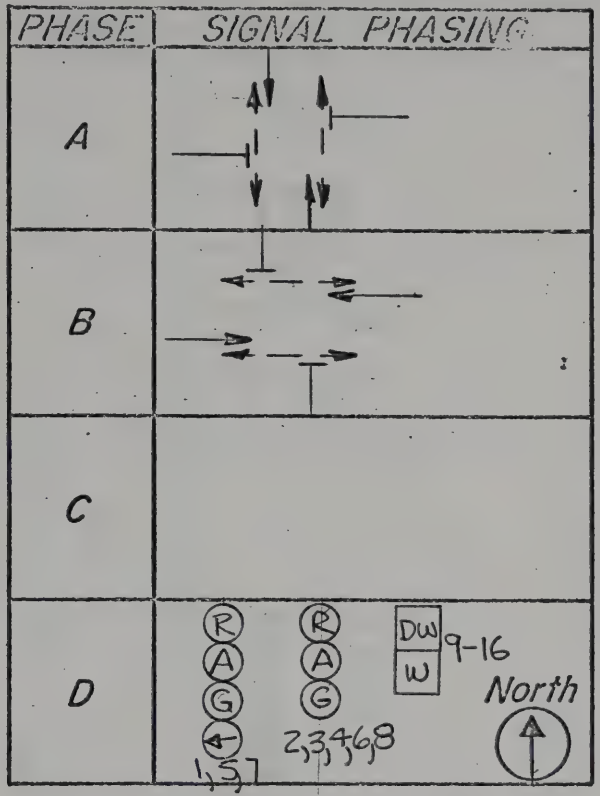
INTERSECTION: MINNESOTA AVE & 6 ST W. CODE # 53

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6794-213 Intersection Photo Numbers: 6788-153, 6788-152



Signal Heads, Poles & Controllers



		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red	Left Arrow	Green	Ped Walk	Ped Clear	Amber	All Red	Left Arrow	Green	Ped Walk	Ped Clear	Amber	All Red	
# 1	%	33	15	15	7		15	23	15	15	7		15						
Sec. 60	Sec	19.8	9	9	4.2		9	13.8	9.0	9.0	4.2		9.0						
	Pins																		
# 2	%	25	13	13	5		10	25	13	13	5		30						
Sec. 70	Sec	17.5	9.1	9.1	3.5		7.0	17.5	9.1	9.1	3.5		21.0						
	Pins																		
# 3	%	24	19		4		8	20	15		4		40						
Sec. 80	Sec	19.2	15.2		3.2		6.4	16	12		3.2		32						
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

4 ϕ, 3 DIAL, FIXED TIME

ECONOLITE, CATA. No. 2TC24F2ICR, FLASHER & ALL RED

Signal Coordination: CABLE INTERCONNECT

Turn Restrictions: NONE

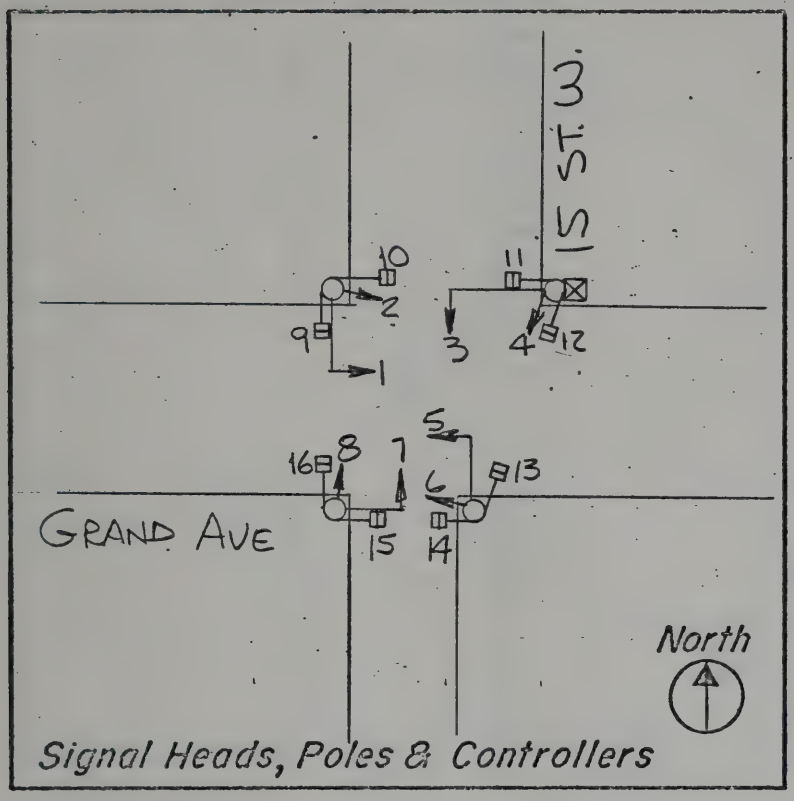
Parking Restrictions: N.P. - ALL LEGS

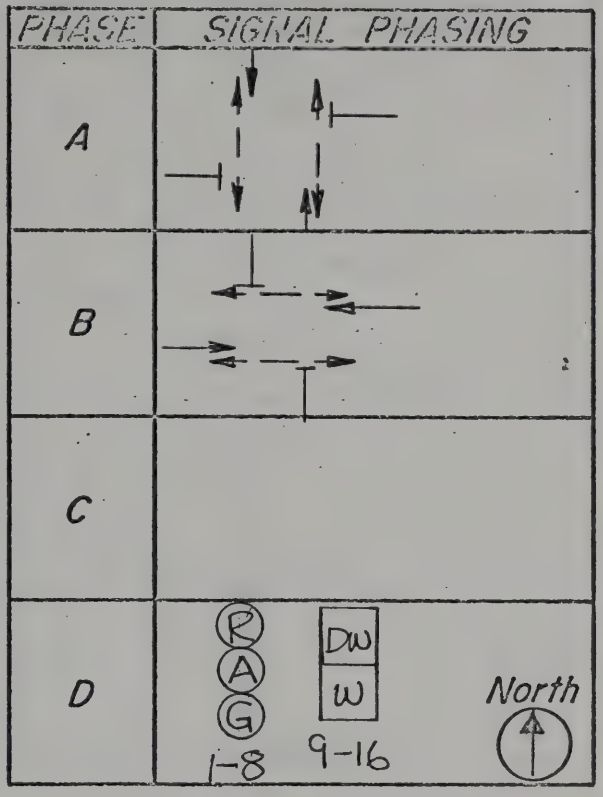
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: GRAND AVE & 15 ST. W. CODE # 54

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: 6777-32 Intersection Photo Numbers: 6776-27, 6776-28





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	54			6			34			6								
Sec. 50	Sec	27			3			17			3								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, 1 DIAL, FIXED TIME

CROUSE-HINDS

9" X 12" INCANDESCENT PED HEADS

Signal Coordination: NONE

Turn Restrictions: NONE

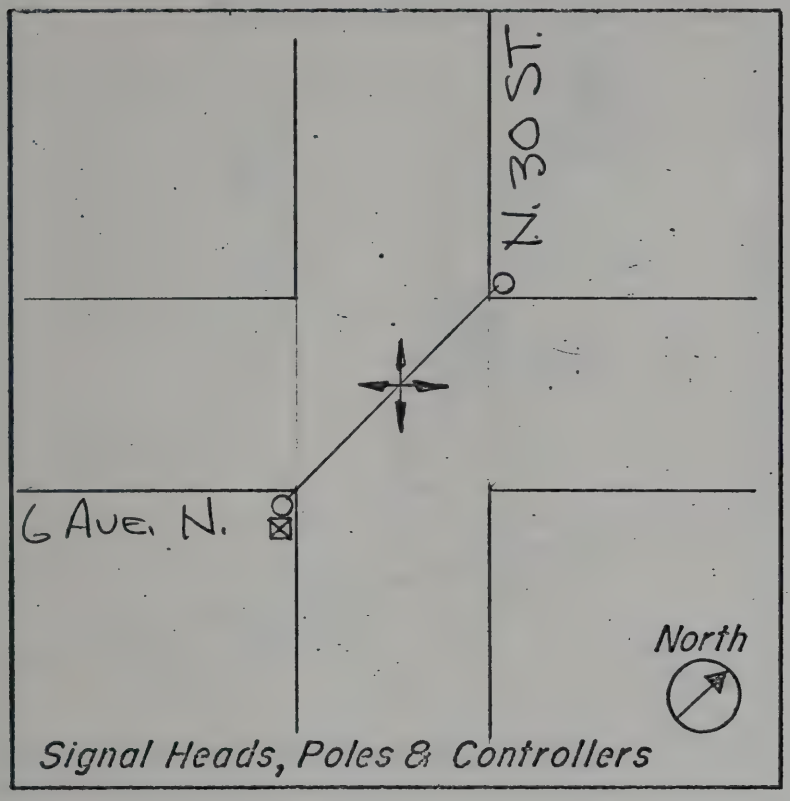
Parking Restrictions: N. P. - MIN. 200' ON ALL LEGS FROM INTERSECTION

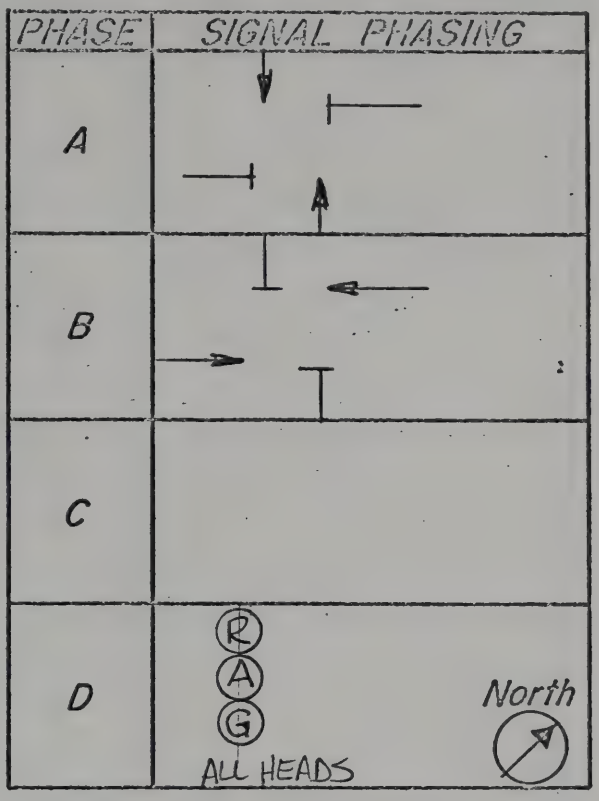
#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6 AVE N. & N. 30 ST CODE# 55

AREA TYPE: DOWNTOWN ☐ OUTLYING ☐ INTERMEDIATE ☒

Controller Photo Numbers: 6792-194 Intersection Photo Numbers: 6782-78, 6786-132





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# 1	%	45			5			45			5								
Sec. 55	Sec	24.25			2.75			24.25			2.75								
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 Ø, 1 DIAL, FIXED TIME

CROUSE-HINDS, TYPE GS-4

Signal Coordination: NONE

Turn Restrictions: NONE

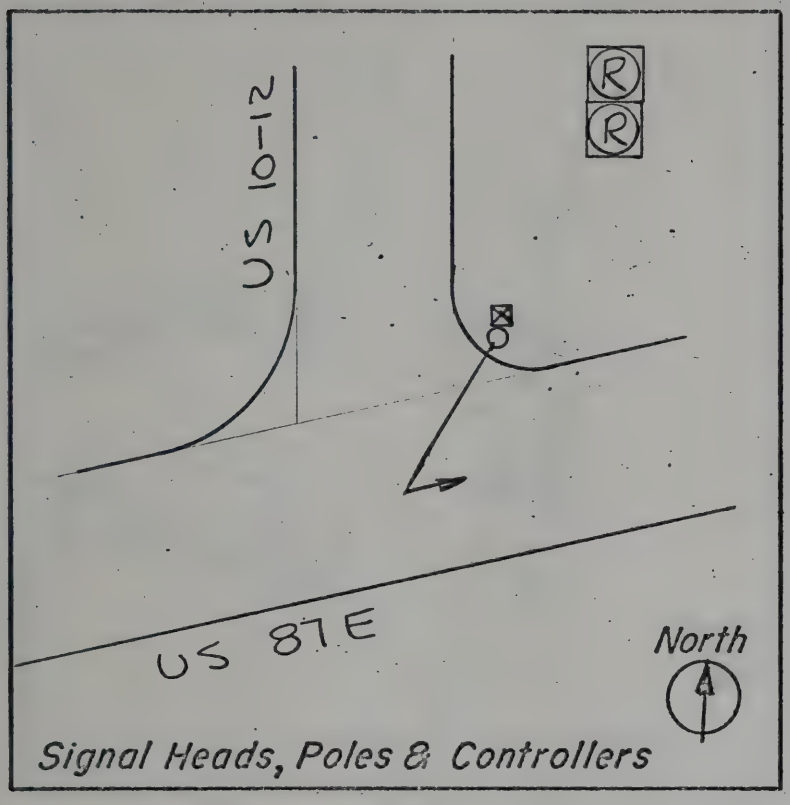
Parking Restrictions: N.P.- E. & W. LEGS, 2 HR - S. LEG

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: U.S. 87E & U.S. 10-12 CODE # 56

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐ 6788-151 6788-150

Controller Photo Numbers: _____ Intersection Photo Numbers: 6788-149



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	North

Dial & Cycle		EAST-WEST Green	Ped Walk	Ped Clear	Amber	All Red		NORTH-SOUTH Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# ___	%																		
Sec. ___	Sec																		
	Pins																		
# ___	%																		
Sec. ___	Sec																		
	Pins																		
# ___	%																		
Sec. ___	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

RED BLINKER -

CROUSE-HINDS

Signal Coordination: NONE

Turn Restrictions: NONE

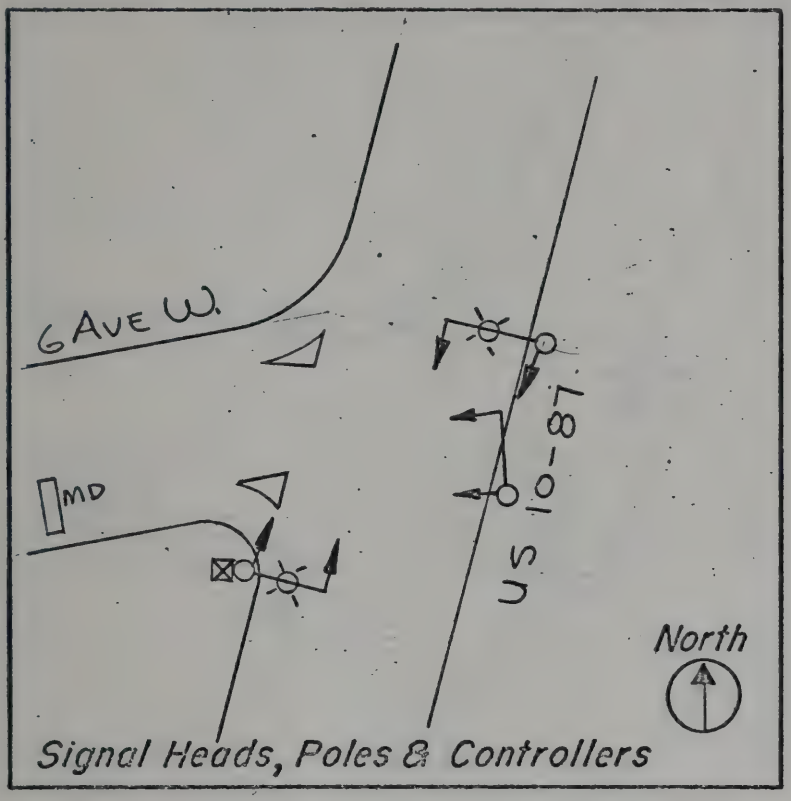
Parking Restrictions: NONE

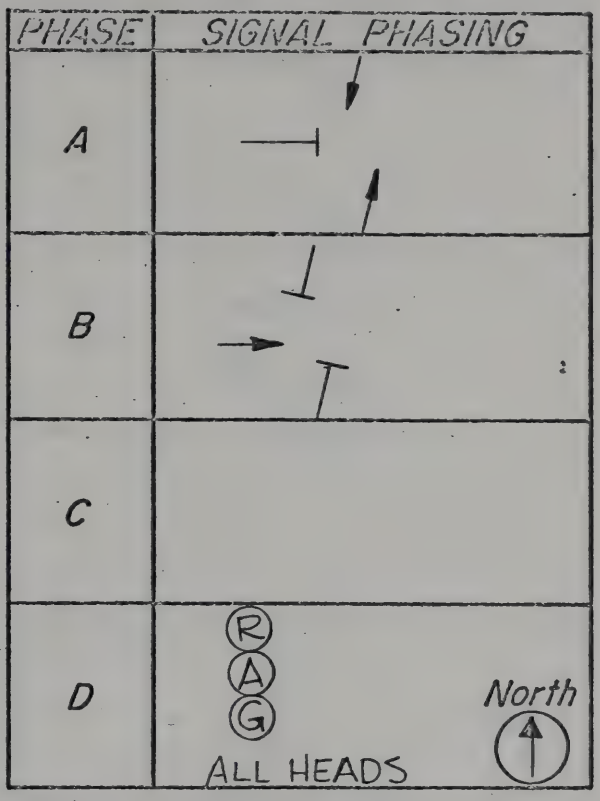
3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: 6 AVE W. & US 10-87 CODE # 57

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: _____ Intersection Photo Numbers: _____





		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red	
# ___	%																		
Sec ___	Sec																		
	Pins	6 AV. W. - MAX. GR-20, AMBER-4						U.S. 10 - MIN. GR-20, AMBER-4											
# ___	%																		
Sec ___	Sec																		
	Pins	INITIAL-7, VEH.-5																	
# ___	%																		
Sec ___	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, SEMI-ACTUATED, SOLID STATE

TS27-RM

2-SY4, 1-MR10 DETECTOR

SOLID STATE FLASHER

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

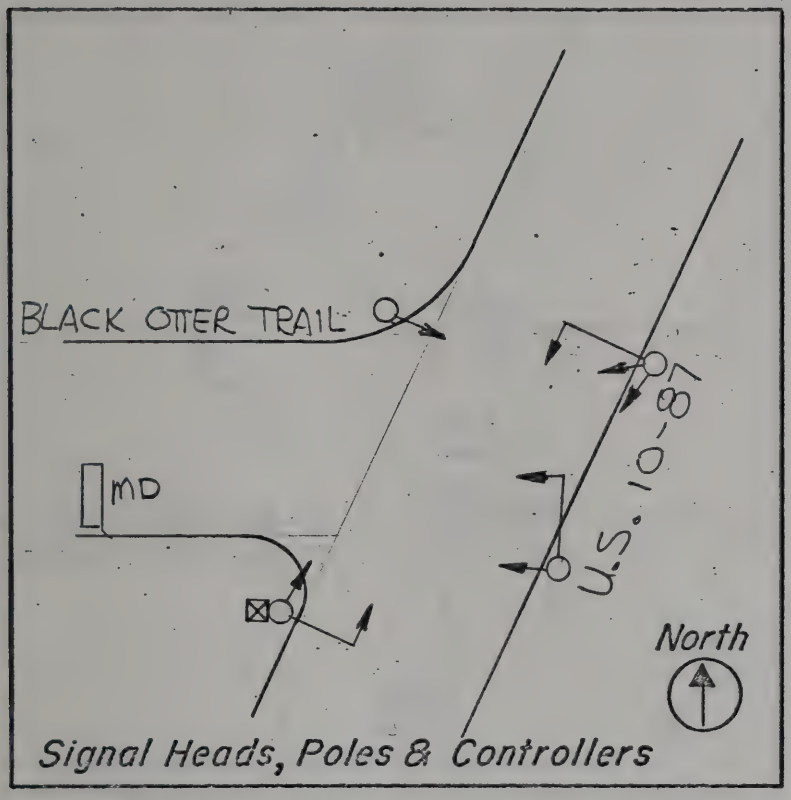
Parking Restrictions: N.P. - ALL LEGS

3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

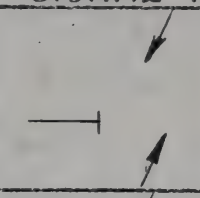
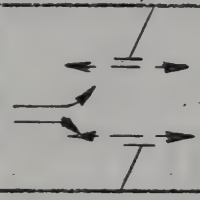
INTERSECTION: BLACK OTTER TRAIL & U.S 10-87 CODE # 58

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: _____ Intersection Photo Numbers: _____



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	
B	
C	
D	(R) (A) (G) ALL HEADS North

EAST-WEST

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red	
# ___	%						
Sec. ___	Sec						
	Pins	BLACK OTTER - MAX. GR-20, AMBER-4					
# ___	%						
Sec. ___	Sec						
	Pins	INITIAL-7 VEH.-5					
# ___	%						
Sec. ___	Sec						
	Pins						

NORTH-SOUTH

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red	
# ___	%						
Sec. ___	Sec						
	Pins	US 10 - MIN GR-20, AMBER-4					
# ___	%						
Sec. ___	Sec						
	Pins						
# ___	%						
Sec. ___	Sec						
	Pins						

Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All	
# ___	%						
Sec. ___	Sec						
	Pins						
# ___	%						
Sec. ___	Sec						
	Pins						
# ___	%						
Sec. ___	Sec						
	Pins						

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, SEMI-ACTUATED, SOLID STATE

T527-RM

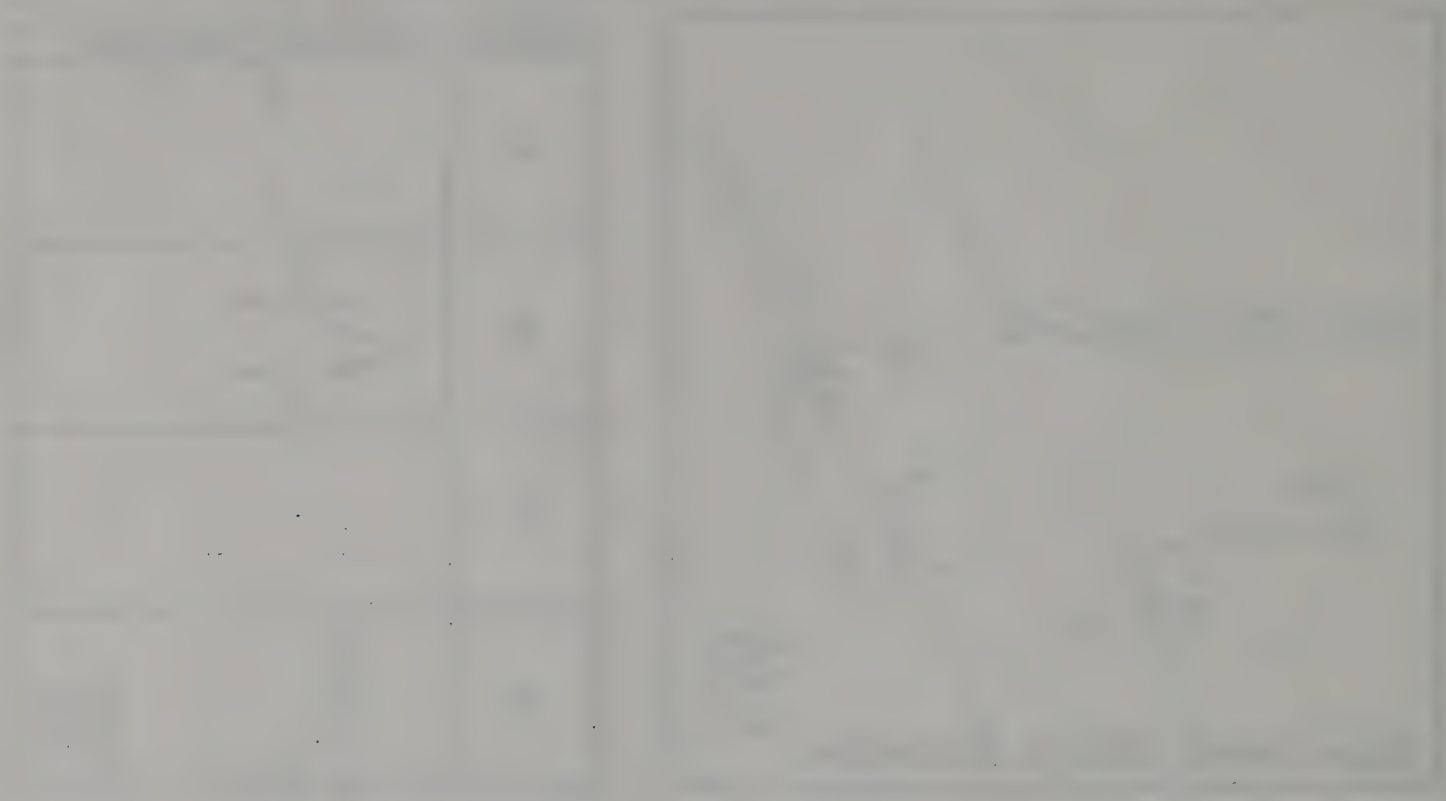
2-SY4 SYNCRONIZER, 1-MR10 DETECTOR

SOLID STATE FLASHER

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

Parking Restrictions: N.P.-ALL LEGS

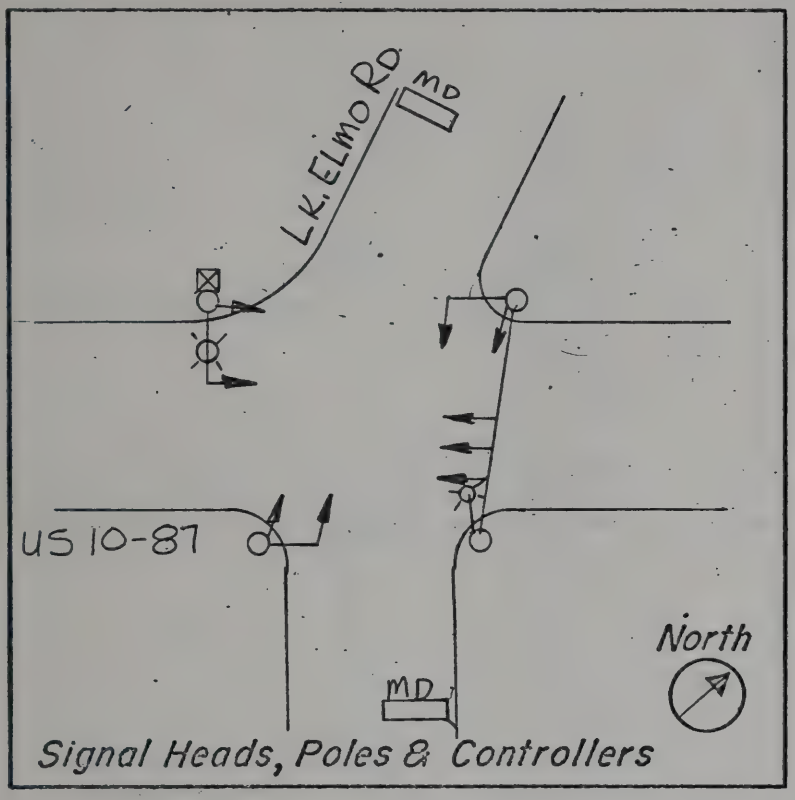


3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

INTERSECTION: LK. ELMO RD & US 10-87 CODE # 59

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: _____ Intersection Photo Numbers: _____



Signal Heads, Poles & Controllers

PHASE	SIGNAL PHASING
A	Am, A
B	
C	
D	R A G ALL HEADS, North

		EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
# ___ Sec. ___	%																		
	Sec																		
	Pins	LK ELMO RD-MAX GR-20 AMBER-4						US 10-MIN GR-20 AMBER-4											
# ___ Sec. ___	%																		
	Sec																		
	Pins	INTIAL-7 VEH.-5																	
# ___ Sec. ___	%																		
	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ SEMI-ACTUATED, SOLID STATE

T527-RM

2-SY4 SYNCRONIZER, 2-MR10 DETECTORS

SOLID STATE FLASHER

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

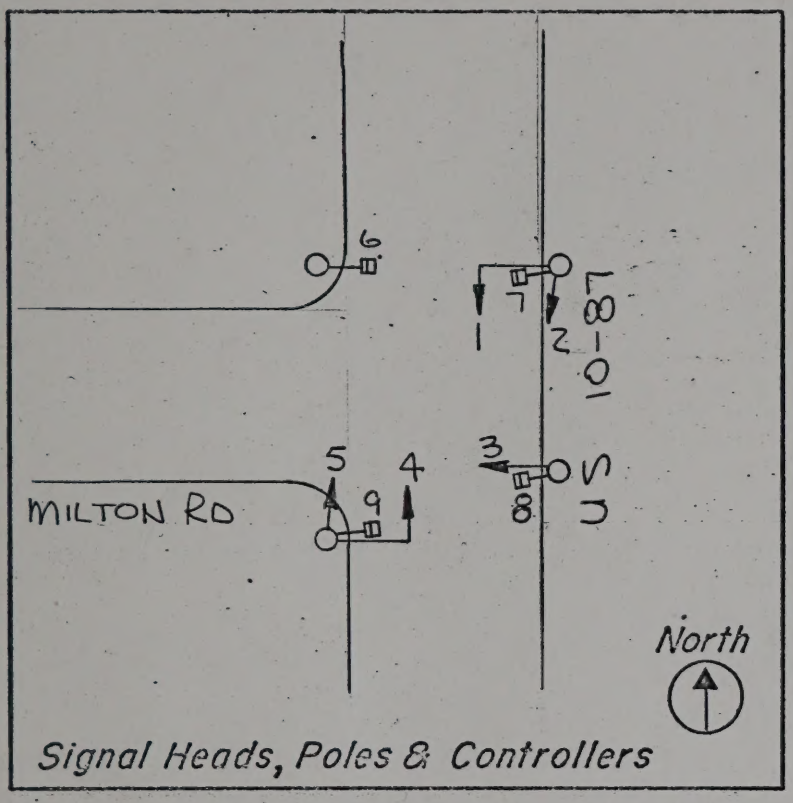
Parking Restrictions: N.P.- ALL LEGS

#3666 BILLINGS MONTANA TRAFFIC CONTROL INVENTORY

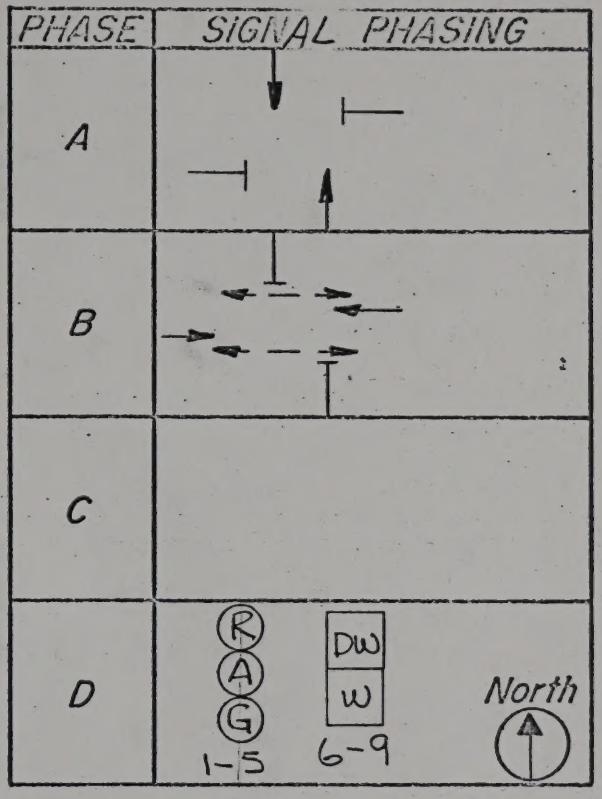
INTERSECTION: MILTON RD & U.S. 10-87 CODE # 60

AREA TYPE: DOWNTOWN ☐ OUTLYING ☒ INTERMEDIATE ☐

Controller Photo Numbers: _____ Intersection Photo Numbers: _____



Signal Heads, Poles & Controllers



	EAST-WEST						NORTH-SOUTH											
Dial & Cycle		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All Red		Green	Ped Walk	Ped Clear	Amber	All	
#	%																		
Sec.	Sec																		
	Pins	MILTON RD.-MAX. GR.-20, AMBER-4						U.S. 10-MIN. GR.-20, AMBER-5											
#	%																		
Sec.	Sec																		
	Pins	INITIAL-7, VEH.-5																	
#	%																		
Sec.	Sec																		
	Pins																		

Signal Controller (Type, Make, and Misc. Accessory Equipment)

2 ϕ, SEMI-ACTUATED, SOLID STATE

T527-Rm

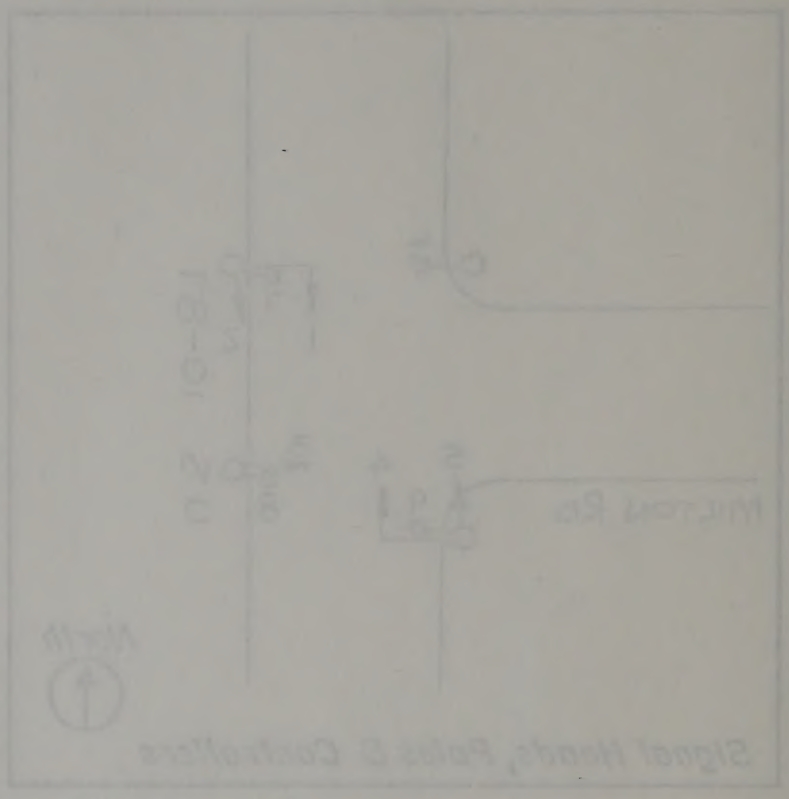
2-SY4 SYNCRONIZER, 1-MR10 DETECTOR

SOLID STATE FLASHER

Signal Coordination: CABLE INTERCONNECTED

Turn Restrictions: NONE

Parking Restrictions: N.P.-ALL LEGS



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